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Proyecto Final Coursera Capstone Mejora de la Seguridad Vial en Bucaramanga a través del Análisis de Accidentes de Tránsito en la Ciudad de Bucaramanga, Colombia

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Ciencia de Datos Aplicada

0.1 Tabla de contenidos

- Introducción: Problema de negocio
- Datos
- Metodología
- Análisis
- Resultados y Discusión
- Conclusión

1 Introducción

En la actualidad, los accidentes de tránsito representan una preocupación constante en las ciudades de todo el mundo. Bucaramanga, una ciudad en Colombia, no es una excepción. La seguridad vial es un tema crucial que afecta no solo a los conductores y peatones, sino también a la infraestructura urbana, los servicios de emergencia y la calidad de vida en general. Con el aumento del tráfico, la diversidad de vehículos en las carreteras y la interacción entre diferentes modos de transporte, la identificación de patrones y factores relacionados con los accidentes de tránsito se ha convertido en una prioridad para las autoridades y la comunidad en Bucaramanga.

1.1 El Problema

El objetivo principal de este proyecto es analizar y comprender los patrones de accidentes de tránsito en la ciudad de Bucaramanga. Para lograrlo, se utilizará un conjunto de datos que registra la ubicación de accidentes de tránsito en la ciudad. El análisis de estos datos permitirá identificar áreas problemáticas, factores de riesgo y tendencias que contribuyen a la ocurrencia de accidentes. Además, se buscará desarrollar recomendaciones y estrategias para mejorar la seguridad vial y reducir la frecuencia y gravedad de los accidentes.

2 Datos

El conjunto de datos utilizado en este proyecto contiene información detallada sobre los accidentes de tránsito en Bucaramanga. Cada registro incluye datos como la ubicación geográfica (latitud y longitud), la fecha y hora del accidente, las condiciones climáticas, el tipo de vehículos involucrados,

la causa probable del accidente y otros detalles relevantes. Estos datos proporcionarán una visión holística de los accidentes en la ciudad y permitirán un análisis profundo de los factores subyacentes.

Los datos fueron adquiridos desde la plataforma del gobierno Colombiano, denominada Datos Abiertos <https://datos.gov.co/>, específicamente en esta dirección, <https://www.datos.gov.co/Transporte/03-ACCIDENTES-DE-TRANSITO-DESDE-ENERO-2012-A-FEBRE/7cci-nqqb>

Los datos que se utilizarán para resolver el problema de los accidentes de tránsito en Bucaramanga provienen de un conjunto de datos que registra información detallada sobre los accidentes. A continuación, se describen las variables presentes en el conjunto de datos:

1. **ORDEN**: Un identificador único para cada registro de accidente.
2. **FECHA**: La fecha en que ocurrió el accidente.
3. **AÑO**: El año en que ocurrió el accidente.
4. **MES**: El mes en que ocurrió el accidente.
5. **DÍA**: El día de la semana en que ocurrió el accidente.
6. **GRAVEDAD**: Indica la gravedad del accidente (Con Heridos, Solo Daños, etc.).
7. **PEATON**: Número de peatones involucrados en el accidente.
8. **AUTOMOVIL, CAMPAERO, CAMIONETA, MICRO, BUSETA, BUS, CAMION, VOLQUETA, MOTO, BICICLETA, OTRO**: Números de diferentes tipos de vehículos involucrados en el accidente.
9. **VIA 1**: La vía principal donde ocurrió el accidente.
10. **BARRIO**: El barrio o ubicación donde ocurrió el accidente.
11. **HORA**: La hora del día en que ocurrió el accidente.
12. **ENTIDAD**: La entidad que atendió el accidente.
13. **nombrecomuna**: El nombre de la comuna en la que ocurrió el accidente.
14. **Propietario de Vehículo**: Propietario del vehículo involucrado.
15. **DIURNIO/NOCTURNO**: Indica si el accidente ocurrió durante el día o la noche.
16. **HORA RESTRICCION MOTO**: Información sobre la restricción de motocicletas.

Este conjunto de datos proporciona información valiosa sobre las características de los accidentes, incluyendo la ubicación geográfica, la gravedad, los tipos de vehículos involucrados y la hora del día en que ocurren. Además de estos datos, se utilizarán los datos de ubicación de Foursquare para enriquecer el análisis. Los datos de Foursquare pueden incluir información sobre la densidad de tráfico, la presencia de infraestructura vial (señales, semáforos, pasos de peatones, etc.) y la ubicación de establecimientos como hospitales y estaciones de policía, que podrían ser relevantes para el análisis de accidentes de tránsito.

La combinación de estos datos permitirá realizar un análisis más completo y profundo de los accidentes de tránsito en Bucaramanga, identificando patrones, tendencias y factores de riesgo que contribuyen a la ocurrencia de accidentes en la ciudad.

2.1 Adquisición de Coordenadas Geográficas para el Conjunto de Datos

Es importante mencionar que este proceso de adquisición de latitud y longitud a partir de direcciones puede ser intensivo en tiempo y recursos. Por lo tanto, se realizó por separado y se proporciona el código como referencia. El archivo “barrios_con_coordenadas.csv” resultante puede ser utilizado en análisis posteriores para incorporar la información geográfica en el conjunto de datos original.

Inicialmente, el conjunto de datos no contenía las variables de latitud y longitud. Por lo tanto,

se llevó a cabo un proceso para obtener los datos de geolocalización de cada registro. Este proceso permitió enriquecer el conjunto de datos con información de ubicación precisa para cada evento. Sin embargo, debido a que la adquisición de estas coordenadas requería un tiempo considerable, se realizó por separado y los resultados se guardaron en un archivo denominado “barrios_con_coordenadas.csv”.

A continuación se presenta el código utilizado para este proceso:

```
“python import pandas as pd import geocoder
```

3 URL del archivo CSV original

```
url = “https://www.datos.gov.co/api/views/7cci-nqqb/rows.csv?accessType=DOWNLOAD&bom=true&format=
```

4 Cargar el archivo CSV en un DataFrame

```
df = pd.read_csv(url)
```

5 Agregar columnas para latitud y longitud

```
df[“Latitud”] = None df[“Longitud”] = None
```

6 Obtener coordenadas y agregarlas al dataset

```
for idx, row in df.iterrows(): direccion = f“{row[‘BARRIO’]}, Bucaramanga, Santander, Colombia”  
location = geocoder.arcgis(direccion) latitud, longitud = location.latlng df.at[idx, “Latitud”] =  
latitud df.at[idx, “Longitud”] = longitud
```

7 Guardar el dataset actualizado en un nuevo archivo CSV

```
df.to_csv(“barrios_con_coordenadas.csv”, index=False)
```

8 Metodología

La metodología utilizada se describe a continuación:

1. **Carga de datos:** Se comenzó por cargar los datos del conjunto de datos desde un archivo CSV utilizando la biblioteca pandas. Los datos contenían información sobre accidentes en diferentes barrios, incluyendo las coordenadas de latitud y longitud.
2. **Preprocesamiento de datos:** Se seleccionaron las características relevantes para el clustering, en este caso, las columnas ‘Latitud’ y ‘Longitud’. Luego, se estandarizaron estas características utilizando el StandardScaler de sklearn para asegurarse de que tengan la misma escala.
3. **Determinación del número óptimo de clústeres:** Se utilizó el método del codo para determinar el número óptimo de clústeres para el algoritmo KMeans. Se iteró a través de un rango de posibles valores de k y se calculó la inercia (suma de las distancias cuadradas entre

las muestras y los centroides) para cada valor. El punto en el que la inercia deja de disminuir de manera significativa se considera el número óptimo de clústeres.

4. **Agrupamiento con KMeans:** Utilizando el número óptimo de clústeres determinado en el paso anterior, se aplicó el algoritmo KMeans para agrupar los datos en los clústeres correspondientes.
5. **Visualización del resultado:** Se generó un diagrama de dispersión para visualizar los resultados del agrupamiento. En este diagrama, cada punto representa una muestra en el espacio bidimensional de las características estandarizadas, y se coloreó de acuerdo al clúster al que pertenece. También se mostraron los centroides de cada clúster en el diagrama.
6. **Generación de un mapa interactivo:** Utilizando la biblioteca folium, se creó un mapa interactivo centrado en una ubicación específica. Se agregaron marcadores para cada muestra en el conjunto de datos, donde la posición de cada marcador corresponde a las coordenadas de latitud y longitud de la muestra. Los marcadores se colorearon de acuerdo al clúster al que pertenecen.
7. **Visualización del número de muestras por clúster:** Se mostró el número de muestras que pertenecen a cada clúster, lo que proporciona información sobre cómo se distribuyen los datos en los diferentes grupos.

La metodología involucró la carga y preprocesamiento de datos, la determinación del número óptimo de clústeres utilizando el método del codo, el agrupamiento de datos con KMeans, la visualización de resultados a través de diagramas de dispersión y mapas interactivos, y la presentación del número de muestras por clúster.

8.1 1. Comprensión del conjunto de datos

8.2 1.1. Carga del Conjunto de Datos y Visualización de las Primeras Filas

```
[1]: import pandas as pd

# Carga el conjunto de datos en un DataFrame
data = pd.read_csv('barrios_con_coordenadas.csv')

# Muestra las primeras filas del DataFrame
data
```

```
[1]:
```

	ORDEN	FECHA	AÑO	MES	DÍA	GRAVEDAD \
0	1	01/01/2012	2012	01. Enero	07. Domingo	Con Heridos
1	2	01/01/2012	2012	01. Enero	07. Domingo	Solo Daños
2	3	01/01/2012	2012	01. Enero	07. Domingo	Solo Daños
3	4	01/01/2012	2012	01. Enero	07. Domingo	Solo Daños
4	5	01/01/2012	2012	01. Enero	07. Domingo	Con Heridos
...
38192	38193	06/02/2023	2023	02. Febrero	01. Lunes	Con muertos
38193	38194	15/02/2023	2023	02. Febrero	03. Miercoles	Con muertos
38194	38195	17/02/2023	2023	02. Febrero	05. Viernes	Con muertos
38195	38196	19/02/2023	2023	02. Febrero	07. Domingo	Con muertos

38196 38197 11/03/2023 2023 03. Marzo 06. Sabado Con muertos

	PEATON	AUTOMOVIL	CAMPAERO	CAMIONETA	...	VIA 1 \
0	0	1	0	0	...	CALLE
1	0	1	0	1	...	VIA MATANZA
2	0	0	0	1	...	CARRERA
3	0	1	0	1	...	CARRERA
4	1	0	0	0	...	CARRERA
...
38192	0	0	0	0	...	AUTOPISTA FLORIDA
38193	0	0	0	0	...	ANILLO VIAL
38194	0	0	0	0	...	AVENIDA Q SECA
38195	0	0	0	0	...	CALLE
38196	0	0	0	0	...	VIA MATANZA

	BARRIO	HORA	ENTIDAD \
0	Mutis	12:15:00 p. m.	AGENTES DTB
1	Regaderos Norte	02:00:00 p. m.	AGENTES DTB
2	Cabecera del Llano	12:00:00 p. m.	AGENTES DTB
3	Norte Bajo	06:30:00 p. m.	AGENTES DTB
4	Dangond	12:30:00 a. m.	AGENTES DTB
...
38192	Diamante II	01:10:00 a. m.	AGENTES DE TRANSITO DTB
38193	Rio de Oro I	03:40:00 p. m.	AGENTES DE TRANSITO DTB
38194	San Alonso	03:15:00 a. m.	AGENTES DE TRANSITO DTB
38195	Campo Hermoso	11:30:00 p. m.	AGENTES DE TRANSITO DTB
38196	SIN INFORMACION	04:45:00 a. m.	AGENTES DE TRANSITO DTB

	nombrecomuna	Propietario de Vehículo	DIURNIO/NOCTURNO \
0	17. MUTIS	Particular	Diurno
1	02. NORORIENTAL	Empresa	Diurno
2	12. CABECERA DEL LLANO	Particular	Diurno
3	03. SAN FRANCISCO	Particular	Nocturno
4	11. SUR	Particular	Nocturno
...
38192	10. PROVENZA	Particular	Nocturno
38193	04. OCCIDENTAL	Particular	Diurno
38194	13. ORIENTAL	Empresa	Nocturno
38195	05. GARCIA ROVIRA	Particular	Nocturno
38196	SIN INFORMACION	Particular	Nocturno

	HORA RESTRICCIÓN MOTO	Latitud	Longitud
0	No aplica	7.09934	-73.13087
1	No aplica	7.14582	-73.12332
2	No aplica	7.11503	-73.10739
3	No aplica	7.14241	-73.13523
4	En restricción	7.07830	-73.12300

```

...
38192      Sin informacion  7.09222 -73.11312
38193      Sin informacion  7.14169 -73.15246
38194      Sin informacion  7.13239 -73.11680
38195      Sin informacion  7.10669 -73.13759
38196      Sin informacion  7.11711 -73.12924

```

```
[38197 rows x 28 columns]
```

8.3 1.2. Información General del Conjunto de Datos

Se utiliza la función `.info()` para obtener información sobre el número de entradas no nulas en cada columna, los tipos de datos y la memoria utilizada por el DataFrame.

```
[2]: # Muestra información general del DataFrame
print(data.info())
```

```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 38197 entries, 0 to 38196
Data columns (total 28 columns):
#   Column                                Non-Null Count  Dtype
---  -
0   ORDEN                                38197 non-null  int64
1   FECHA                                38197 non-null  object
2   AÑO                                  38197 non-null  int64
3   MES                                  38197 non-null  object
4   DÍA                                  38197 non-null  object
5   GRAVEDAD                             38197 non-null  object
6   PEATON                                38197 non-null  int64
7   AUTOMOVIL                             38197 non-null  int64
8   CAMPAERO                              38197 non-null  int64
9   CAMIONETA                             38197 non-null  int64
10  MICRO                                38197 non-null  int64
11  BUSETA                                38197 non-null  int64
12  BUS                                    38197 non-null  int64
13  CAMION                                38197 non-null  int64
14  VOLQUETA                              38197 non-null  int64
15  MOTO                                  38197 non-null  int64
16  BICICLETA                             38197 non-null  int64
17  OTRO                                  38197 non-null  int64
18  VIA 1                                 38197 non-null  object
19  BARRIO                                38197 non-null  object
20  HORA                                   37931 non-null  object
21  ENTIDAD                               37952 non-null  object
22  nombrecomuna                          38197 non-null  object
23  Propietario de Vehículo                38197 non-null  object
24  DIURNIO/NOCTURNO                       38197 non-null  object
25  HORA RESTRICCIÓN MOTO                   38197 non-null  object

```

```

26  Latitud                38197 non-null float64
27  Longitud               38197 non-null float64
dtypes: float64(2), int64(14), object(12)
memory usage: 8.2+ MB
None

```

8.4 1.3. Listado de Columnas

Se utiliza la propiedad `.columns` para obtener una lista de todas las columnas presentes en el DataFrame.

```
[3]: # Muestra la lista de columnas
print(data.columns)
```

```

Index(['ORDEN', 'FECHA', 'AÑO', 'MES', 'DÍA', 'GRAVEDAD', 'PEATON',
      'AUTOMOVIL', 'CAMPAERO', 'CAMIONETA', 'MICRO', 'BUSETA', 'BUS',
      'CAMION', 'VOLQUETA', 'MOTO', 'BICICLETA', 'OTRO', 'VIA 1', 'BARRIO',
      'HORA', 'ENTIDAD', 'nombrecomuna', 'Propietario de Vehículo',
      'DIURNIO/NOCTURNO', 'HORA RESTRICCION MOTO', 'Latitud', 'Longitud'],
      dtype='object')

```

8.5 1.4. Resumen Estadístico de Variables Numéricas

```
[4]: # Muestra el resumen estadístico de variables numéricas
print(data.describe())
```

	ORDEN	AÑO	PEATON	AUTOMOVIL	CAMPAERO \
count	38197.000000	38197.000000	38197.000000	38197.000000	38197.000000
mean	19099.000000	2016.480430	0.10472	0.786292	0.060947
std	11026.668453	3.063243	0.33937	0.743994	0.245928
min	1.000000	2012.000000	0.00000	0.000000	0.000000
25%	9550.000000	2014.000000	0.00000	0.000000	0.000000
50%	19099.000000	2016.000000	0.00000	1.000000	0.000000
75%	28648.000000	2019.000000	0.00000	1.000000	0.000000
max	38197.000000	2023.000000	7.00000	29.000000	2.000000

	CAMIONETA	MICRO	BUSETA	BUS	CAMION \
count	38197.000000	38197.000000	38197.000000	38197.000000	38197.000000
mean	0.197555	0.020290	0.044061	0.048198	0.083279
std	0.432211	0.141916	0.211639	0.218303	0.287543
min	0.000000	0.000000	0.000000	0.000000	0.000000
25%	0.000000	0.000000	0.000000	0.000000	0.000000
50%	0.000000	0.000000	0.000000	0.000000	0.000000
75%	0.000000	0.000000	0.000000	0.000000	0.000000
max	3.000000	2.000000	2.000000	2.000000	3.000000

	VOLQUETA	MOTO	BICICLETA	OTRO	Latitud \
count	38197.000000	38197.000000	38197.000000	38197.000000	38197.000000
mean	0.014242	0.611697	0.017384	0.021075	7.117426

std	0.120025	0.652550	0.132290	0.149355	0.017941
min	0.000000	0.000000	0.000000	0.000000	6.982270
25%	0.000000	0.000000	0.000000	0.000000	7.107250
50%	0.000000	1.000000	0.000000	0.000000	7.117110
75%	0.000000	1.000000	0.000000	0.000000	7.127280
max	2.000000	8.000000	3.000000	2.000000	7.218160

	Longitud
count	38197.000000
mean	-73.121426
std	0.011464
min	-73.167780
25%	-73.127370
50%	-73.119850
75%	-73.113840
max	-73.050230

8.6 1.5. Variables Categoricals y Numéricas

```
[5]: #Identificar variables categóricas
categorical_variables = data.select_dtypes(include=['object']).columns.tolist()

#Identificar variables numéricas
numeric_variables = data.select_dtypes(include=['int64', 'float64']).columns.
    ↪.tolist()

print("Variables Categóricas:")
print(categorical_variables)

print("\nVariables Numéricas:")
print(numeric_variables)
```

Variables Categóricas:

```
['FECHA', 'MES', 'DÍA', 'GRAVEDAD', 'VIA 1', 'BARRIO', 'HORA', 'ENTIDAD',
'nombrecomuna', 'Propietario de Vehículo', 'DIURNIO/NOCTURNO', 'HORA RESTRICCIÓN
MOTO']
```

Variables Numéricas:

```
['ORDEN', 'AÑO', 'PEATON', 'AUTOMOVIL', 'CAMPAERO', 'CAMIONETA', 'MICRO',
'BUSETA', 'BUS', 'CAMION', 'VOLQUETA', 'MOTO', 'BICICLETA', 'OTRO', 'Latitud',
'Longitud']
```

8.6.1 1.5.1. Conteo de Valores Únicos en Columnas Categóricas

Este código cargará el conjunto de datos, recorrerá cada variable categórica en la lista `categorical_variables`, y para cada variable imprimirá los valores únicos presentes y su cantidad total. Esto te proporcionará información sobre la diversidad de categorías en cada columna categórica. Recuerda reemplazar `'nombre_del_archivo.csv'` con el nombre real de tu archivo de datos.


```
[6]: import pandas as pd

# Variables categóricas
categorical_variables = ['FECHA', 'MES', 'DÍA', 'GRAVEDAD', 'VIA 1', 'BARRIO', 'HORA', 'ENTIDAD', 'nombrecomuna', 'Propietario de Vehículo', 'DIURNIO/NOCTURNO', 'HORA RESTRICCIÓN MOTO']

# Cuenta los valores únicos en cada variable categórica
for column in categorical_variables:
    unique_values = data[column].unique()
    print(f"Valores únicos en {column}: {unique_values}\nTotal de valores únicos: {len(unique_values)}\n")
```

Valores únicos en FECHA: ['01/01/2012' '02/01/2012' '03/01/2012' ...
 '27/02/2023' '28/02/2023'
 '11/03/2023']
 Total de valores únicos: 4050

Valores únicos en MES: ['01. Enero' '02. Febrero' '03. Marzo' '04. Abril' '05. Mayo' '06. Junio'
 '07. Julio' '08. Agosto' '09. Septiembre' '10. Octubre' '11. Noviembre' '12. Diciembre']
 Total de valores únicos: 12

Valores únicos en DÍA: ['07. Domingo' '01. Lunes' '02. Martes' '03. Miércoles' '04. Jueves'
 '05. Viernes' '06. Sábado']
 Total de valores únicos: 7

Valores únicos en GRAVEDAD: ['Con Heridos' 'Solo Daños' 'Con Muertos' 'Con heridos' 'Solo daños'
 'Con muertos']
 Total de valores únicos: 6

Valores únicos en VIA 1: ['CALLE' 'VIA MATANZA' 'CARRERA' 'TRANSVERSAL METROPOLITANA'
 'AUTOPISTA NORTE' 'AVENIDA Q SECA' 'ANILLO VIAL'
 'AUTOPISTA FLORIDA BUCARAMANGA' 'CALLE 45 VIA CHIMITA'
 'AVENIDA GONZALEZ VALENCIA' 'AUTOPISTA GIRÓN' 'DIAGONAL' 'TRANSVERSAL'
 'BOULEVAR BOLIVAR' 'AVENIDA EL JARDIN' 'DIAGONAL 15' 'AVENIDA LA ROSITA'
 'TRANSVERSAL ORIENTAL' 'AUTOPISTA CUCUTA' 'AVENIDA BUCAROS'
 'AVENIDA SAMANES' 'BOULEVAR SANTANDER' 'AVENIDA' 'VIA CARRASCO'
 'AVENIDA GUAYACANES' 'AVENIDA LOS ESTUDIANTES' 'AUTOPISTA CUCUTA'
 'BOULEVAR FONTANA' 'AVENIDA EDUARDO SANTOS' 'AUTOPISTA NORTE'
 'AVENIDA BUCAROS' 'CIRCUNVALAR' 'AVENIDA 89' 'TRANSVERSAL 28'
 'AVENIDA GONZÁLEZ VALENCIA' 'AVENIDA EDUARDO SANTOS' 'TRANSVERSAL 93'
 'AVENIDA LOS BUCAROS' 'TRANSVERSAL 24' 'AVENIDA 15 N' 'DIAGONAL 32']

'VIA BAVARIA' 'TRANSVERSAL 92' 'AVENIDA EL JARDIN' 'AVENIDA 42'
 'DIAGONAL 105' 'TRANSVERSAL 72' 'AVENIDA 61' 'TRANSVERSAL 112'
 'AVENIDA TEJAR' 'AVENIDA 88' 'TRANSVERSAL TERRAZAS' 'AVENIDA 87'
 'DIAGONAL 14' 'KILOMETRO' 'CL 45 VIA CHIMITA' 'CIRCULAR' 'DIAGONAL 31'
 'DIAGONAL 13' 'TRANSVERSAL 93' 'TRANSVERSA 89' 'AUTOPISTA GIRON'
 'AVENIDA GONZALEZ VALENCIA' 'CALLE 45 CHIMITA' 'BULEVAR BOLIVAR'
 'AUTOP NORTE' 'CALLE ESTUDIANTES' 'TRANSVERSAL 65' 'DIAGONAL 20'
 'DIAGONAL 11' 'DIAGONAL 64' 'AUTOP GIRON' 'CARRERA 21' 'CARRERA 9'
 'CARREERA 27' 'CALLE 3' 'CARRERA 12' 'CALLE 11' 'CARRERA 33' 'CALLE 31'
 'TRV METROPOLITANA' 'CALLE 93' 'CARRERA 12 N' 'CARRERA 17'
 'AUTOPISTA FLORIDA' 'CARRERA 15' 'CALLE 41' 'CALLE 105' 'CARRERA 55'
 'CALLE 83' 'CARRERA 19' 'AUTOPISTA' 'BOULEVAR BOLÍVAR' 'AVDA Q SECA']
 Total de valores únicos: 94

Valores únicos en BARRIO: ['Mutis' 'Regaderos Norte' 'Cabecera del Llano' 'Norte Bajo' 'Dangond']

'San Miguel' 'La Pedregosa' 'Bucaramanga' 'Tejar Norte' 'Sotomayor'
 'Fontana' 'Provenza' 'Nuevo Sotomayor' 'Cafe Madrid' 'Centro' 'Alvarez'
 'Asturias' 'Bolarqui' 'Los Pinos' 'Manuela Beltran' 'Rio de Oro I'
 'Alarcon' 'Real de Minas' 'Antonia Santos Centro' 'Conucos' 'La Aurora'
 'Mejoras Publicas' 'Girardot' 'San Alonso' 'Juan XXIII' 'La Ceiba'
 'Comuneros' 'Antonia Santos Sur' 'La Concordia'
 'PREDIO URBANO PUENTE EL BUENO' 'Divino Niño' 'La Victoria'
 'San Francisco' 'Lagos del Cacique' 'El Jardin' 'Colseguros Norte'
 'Colorados' 'Miraflores' 'Villa Alicia' 'SIN INFORMACION' 'Candiles'
 'Bolivar' 'El Tejar' 'CAMINO DEL PARQUE' 'Campo Hermoso' 'Esperanza I'
 'FLORIDABLANCA' 'Universidad' 'San Rafael' 'Ricaurte' 'Kennedy'
 'NUEVO SOTOMAYOR' 'SANTA BARBARA' 'Estoraques I y II' 'La Estrella'
 'San Gerardo' 'Diamante I' 'Alfonso Lopez' 'Diamante II' 'Puerta del Sol'
 'Africa' 'Chapinero' 'Morrórico' 'El Rocio' 'Modelo' 'Garcia Rovira'
 'Gaitan' 'ANTONIA SANTOS CENTRO' 'Canelos' 'LA CEIBA' 'El Prado'
 'Terrazas' 'Chorreras de Don Juan' 'Toledo Plata' 'ROBLES' 'El Porvenir'
 'SAN GERARDO II' 'Albania' 'Manzanares' 'La Joya'
 'Quebrada la Iglesia II' 'Pan de Azucar' 'CABECERA DEL LLANO'
 'Villa Mercedes' 'Gomez Niño' 'Bosque norte' 'La Feria'
 'LA CANTERA-EL CERRO' 'Ciudad Venecia' 'La Salle' 'Antiguo Campestre'
 'CONUCOS' 'Mutualidad' 'Villa Helena I' 'EL TEJAR' 'SAN FRANCISCO'
 'La Floresta' 'Nariño' 'La Libertad' 'La Juventud' 'Olas II'
 'Nueva Granada' 'VIADUCTO LA FLORA(NO BARRIO)' 'CAMPESTRE' 'Mercedes'
 'Santander' 'San Martin' 'Monterredondo' 'LA ESMERALDA' 'Vijagual'
 'LA TRINIDAD' 'VILLA DIAMANTE' 'San Expedito' 'PEDREGAL' 'Villa Rosa'
 '13 de junio' 'LA independencia' 'Galan' 'Los Guayacanes'
 'Transicion I-V' 'GRANADA' 'VILLA HELENA II' 'SOTOMAYOR' 'Cordoncillo II'
 'Delicias' 'SAN ALONSO' 'Quebrada la Iglesia I' 'PRADOS DEL MUTIS'
 'SAN PIO' 'Quinta Dania' 'CALDAS' 'Villa Diamante' 'La Esmeralda'
 'Brisas del Mutis' 'Malpaso' 'Vegas de Morrórico' 'Buenos Aires'
 'NORTE BAJO' 'MODELO' 'Saucos' 'VEGAS DE MORRORICO' 'LA CONCORDIA'
 'Limoncito' 'Prados del Mutis' 'LA FLORESTA' 'Altos del Progreso'

'Altos del Lago' 'MUTIS' 'Maria Paz' 'Granada' 'PUERTA DEL SOL'
 'San Luis' 'EL PLAN' '10 DE MAYO SANTA BARBARA' 'Altos del Cacique'
 'Balconcitos' 'Lizcano I' 'NAPOLIS' 'El Diviso' 'Bosconia' 'Los Heroes'
 'Hacienda San Juan' 'Brisas de Provenza' 'Candado'
 'Villas de San Ignacio' 'Los Angeles' 'El Rosal' 'PORTO FINO'
 'Villa Ines' 'San Cristóbal' 'Miramar' 'Pablo VI' 'Esperanza II'
 'Santa Maria' 'EL PRADO' 'LOS ROBLES' 'MONTERREDONDO' 'Claveriano'
 'RUITOQUE' 'Villa Helena II' 'Minuto de Dios' 'Esperanza III'
 'ANTONIA SANTOS SUR' 'Villa Sara' 'El Pablon' 'Las Hamacas' 'Los Cedros'
 'SAN PEDRO' 'Cordoncillo I' 'Balcones del Kennedy' '23 de junio'
 'Olas Altas' 'MERCEDES' 'VIJAGUAL' 'MUTUALIDAD' 'Venado de Oro'
 'Jardines de Coaviconsas' 'BUENAVISTA' 'CENTRO' 'La Gran Ladera'
 'SAN LUIS' 'PROVENZA' 'BRISAS DEL MUTIS' 'LA SALLE' 'Delicias Altas'
 'SAN RAFAEL' 'TERRAZAS' 'Quinta Brigada' 'COMUNEROS' 'Olas Bajas'
 'Buenavista' 'Don Bosco' 'SAN MIGUEL' 'Omaga II' '12 de Octubre'
 'Puerto Rico' 'Cristal Alto' 'LOS ALPES' 'Los Laureles'
 'Altos del Kennedy' 'Rio de Oro II' 'Zarabanda' 'Rosalta' 'DANGOND'
 'Condado de Gibraltar' 'CANDADO' 'Granjas de Provenza' 'Altos del Jardin'
 'Mirador Norte' 'Pio XII' '20 de julio' 'Miradores del Kennedy'
 'San Jose' 'MIRADORES DE LA CANTERA' 'Las Delicias' 'Vía Chimitá'
 'Robles' 'Quintadania' 'Quinta Estrella' 'San Cristobal' 'Rosa Blanca'
 'Puente El Bueno' 'Napoles' 'Chorreras Don Juan' 'La independencia'
 'Terminal de Transporte' 'EL BUENO' 'Rosa blanca' 'Los Conquistadores'
 'Estoraques']

Total de valores únicos: 255

Valores únicos en HORA: ['12:15:00 p.\xa0m.' '02:00:00 p.\xa0m.' '12:00:00 p.\xa0m.' ...
 '10:56:00 p.\xa0m.' '02:06:00 a.\xa0m.' '01:07:00 a.\xa0m.']

Total de valores únicos: 1120

Valores únicos en ENTIDAD: ['AGENTES DTB' 'AGENTES POLICIA NACIONAL' nan
 'AGENTES DE TRANSITO DTB']

Total de valores únicos: 4

Valores únicos en nombrecomuna: ['17. MUTIS' '02. NORORIENTAL' '12. CABECERA DEL LLANO'

'03. SAN FRANCISCO' '11. SUR' '06. LA CONCORDIA' '09. LA PEDREGOSA'
 '08. SUROCCIDENTE' '01. NORTE' '10. PROVENZA' '15. CENTRO' '13. ORIENTAL'
 '04. OCCIDENTAL' '07. LA CIUDELA' '16. LAGOS DEL CACIQUE'
 '14. MORRORICO' 'SIN INFORMACION' '05. GARCIA ROVIRA' 'FLORIDABLANCA'
 '18. CORREG. 1' '24. CALDAS - REPOSO' 'CORREG. 3' '30. CORREG'
 'CORREG. 1' 'GIRON' '08. SUR OCCIDENTE' 'CORREG. 2' 'EL BUENO']

Total de valores únicos: 28

Valores únicos en Propietario de Vehículo: ['Particular' 'Empresa' 'SIN INFORMACION']

Total de valores únicos: 3

Valores únicos en DIURNIO/NOCTURNO: ['Diurno' 'Nocturno']

Total de valores únicos: 2

Valores únicos en HORA RESTRICCIÓN MOTO: ['No aplica' 'En restricción' 'Sin restricción' 'SIN INFORMACION']

'Sin restricción' 'En restricción' 'Sin informacion']

Total de valores únicos: 7

8.7 1.6. Analisis de la compresión de los datos

Introducción: En el presente análisis, se investiga un conjunto de datos compuesto por registros de incidentes de tráfico. Este conjunto de datos se presenta en forma de un DataFrame con 38197 filas y 28 columnas, cada una de las cuales contiene información relevante sobre los eventos. El objetivo de este análisis es comprender mejor la naturaleza de estos incidentes, identificar patrones y tendencias, y extraer información valiosa para mejorar la seguridad vial.

Estructura del Conjunto de Datos: El conjunto de datos abarca una variedad de atributos que ofrecen una visión integral de los eventos. Cada fila representa un incidente individual, mientras que las columnas comprenden información sobre la fecha, hora, ubicación geográfica, tipos de vehículos involucrados, gravedad del incidente y otros atributos relevantes.

Características Clave: 1. **Atributos Temporales:** Las columnas “FECHA”, “AÑO”, “MES”, “DÍA” y “HORA” permiten el análisis temporal. Esto facilita la identificación de patrones de incidencia a lo largo del tiempo y la comprensión de tendencias estacionales.

2. **Atributos Geográficos:** Las columnas “BARRIO”, “nombrecomuna”, “Latitud” y “Longitud” ofrecen información espacial. Esto habilita la visualización de áreas geográficas con mayor concentración de incidentes y la detección de posibles puntos de riesgo.
3. **Tipos de Vehículos:** A través de las columnas que detallan la cantidad de diferentes tipos de vehículos involucrados en cada incidente, se pueden determinar las categorías de vehículos más susceptibles a los incidentes y posiblemente identificar causas subyacentes.
4. **Gravedad y Causas:** La columna “GRAVEDAD” proporciona una medida de la gravedad del evento. Explorar la relación entre los tipos de vehículos, la gravedad y otros atributos podría brindar información sobre las causas detrás de los incidentes más graves.
5. **Restricciones y Horarios:** Las columnas “DIURNIO/NOCTURNO” y “HORA RESTRICCIÓN MOTO” sugieren la existencia de restricciones temporales. Estudiar cómo estas restricciones afectan la frecuencia y naturaleza de los incidentes podría ser relevante para la planificación de políticas de seguridad vial.

Conclusiones y Próximos Pasos: El análisis preliminar de este conjunto de datos de incidentes de tráfico revela su potencial para identificar patrones y factores que contribuyen a los incidentes. Sin embargo, es necesario un análisis más profundo y detallado para obtener información más precisa y significativa. En próximas etapas, se pueden aplicar técnicas de visualización y análisis más avanzadas para obtener insights más profundos y proporcionar recomendaciones que contribuyan a la mejora de la seguridad vial y la reducción de incidentes.

Este análisis sienta las bases para futuras investigaciones en el ámbito de la seguridad vial y el

análisis de datos de tráfico, ofreciendo una visión general de la riqueza de información contenida en el conjunto de datos y su potencial impacto en la toma de decisiones informadas para la prevención de accidentes de tráfico. En el presente análisis, se investiga un conjunto de datos compuesto por registros de incidentes de tráfico.

9 2. Limpieza de datos

9.1 2.1. Identificación y Tratamiento de Valores Faltantes

Se utiliza el método `.isnull()` en el DataFrame para identificar los valores faltantes en todas las columnas. Igualmente, el método `.sum()` en el resultado del paso anterior para obtener la cantidad de valores faltantes por columna.

```
[7]: # Identifica valores faltantes en cada columna
missing_values = data.isnull().sum()

# Muestra la cantidad de valores faltantes por columna
print(missing_values)
```

ORDEN	0
FECHA	0
AÑO	0
MES	0
DÍA	0
GRAVEDAD	0
PEATON	0
AUTOMOVIL	0
CAMPAERO	0
CAMIONETA	0
MICRO	0
BUSETA	0
BUS	0
CAMION	0
VOLQUETA	0
MOTO	0
BICICLETA	0
OTRO	0
VIA 1	0
BARRIO	0
HORA	266
ENTIDAD	245
nombrecomuna	0
Propietario de Vehículo	0
DIURNIO/NOCTURNO	0
HORA RESTRICCION MOTO	0
Latitud	0
Longitud	0
dtype: int64	

9.1.1 2.1.1. Imputación con la Moda HORA

Columna HORA:

Los valores faltantes en la columna 'HORA' (266 valores faltantes) pueden ser tratados de varias maneras. - imputar los valores faltantes con la mediana o la moda de la columna 'HORA', dependiendo de la distribución de los datos. - eliminar las filas con valores faltantes en esta columna si no representan una parte significativa del conjunto de datos.

En este caso vamos a imputar utilizando la moda.

```
[8]: # Calcula la moda de la columna 'HORA'
hora_moda = data['HORA'].mode()[0] # .mode() devuelve una Serie de modas, [0]
    ↪ toma la primera moda

# Imputa los valores faltantes en la columna 'HORA' con la moda
data['HORA'] = data['HORA'].fillna(hora_moda)

# Verifica que ya no hay valores faltantes en la columna 'HORA'
print(data['HORA'].isnull().sum())
```

0

9.1.2 2.1.2 Imputación con el Valor Más Frecuente ENTIDAD

Columna ENTIDAD:

Se considera realizar una imputación de los valores faltantes en lugar de eliminar los registros. Sin embargo, la imputación en este caso puede ser más desafiante debido a la naturaleza categórica de la columna.

Esto puede ser válido si el valor más frecuente es representativo de la mayoría de los casos y no sesga significativamente los resultados.

```
[9]: # Calcula la moda de la columna 'ENTIDAD'
entidad_moda = data['ENTIDAD'].mode()[0]

# Imputa los valores faltantes en la columna 'ENTIDAD' con la moda
data['ENTIDAD'] = data['ENTIDAD'].fillna(entidad_moda)

# Verifica que ya no hay valores faltantes en la columna 'ENTIDAD'
print(data['ENTIDAD'].isnull().sum())
```

0

9.2 2.2. Verificación de Datos Erróneos o Inconsistentes

verificar la consistencia de las fechas, convierte la columna FECHA en un formato de fecha utilizando `pd.to_datetime()` y verifica si hay fechas fuera del rango esperado.

```
[10]: # Convierte la columna 'FECHA' al formato de fecha
data['FECHA'] = pd.to_datetime(data['FECHA'], format='%d/%m/%Y')

# Define las fechas mínima y máxima para verificar el rango
fecha_minima = pd.to_datetime('01/01/2012')
fecha_maxima = pd.to_datetime('11/03/2023')

# Verifica si hay fechas fuera del rango esperado
invalid_dates = data[(data['FECHA'] < fecha_minima) | (data['FECHA'] >
↪ fecha_maxima)]
print("Fechas inválidas:")
print(invalid_dates)
```

Fechas inválidas:

Empty DataFrame

Columns: [ORDEN, FECHA, AÑO, MES, DÍA, GRAVEDAD, PEATON, AUTOMOVIL, CAMPAERO, CAMIONETA, MICRO, BUSETA, BUS, CAMION, VOLQUETA, MOTO, BICICLETA, OTRO, VIA 1, BARRIO, HORA, ENTIDAD, nombrecomuna, Propietario de Vehículo, DIURNIO/NOCTURNO, HORA RESTRICCION MOTO, Latitud, Longitud]

Index: []

[0 rows x 28 columns]

después de la conversión de fechas y la verificación, no se encontraron fechas inválidas en el rango especificado.

9.3 2.3 Verificar las categorías en las columnas

Verificar si las categorías en las columnas categóricas son coherentes y están correctamente etiquetadas. Se usa el método `.value_counts()` para verificar la frecuencia de cada categoría. En la primera etapa se identificó que hay categorías que se deben corregir

```
[11]: categorical_variables = ['FECHA', 'MES', 'DÍA', 'GRAVEDAD', 'VIA 1', 'BARRIO',
↪ 'HORA', 'ENTIDAD', 'nombrecomuna', 'Propietario de Vehículo', 'DIURNIO/
↪ NOCTURNO', 'HORA RESTRICCION MOTO']

# Cuenta los valores únicos en cada variable categórica
for column in categorical_variables:
    print(data[column].value_counts())
    print() # Agrega un salto de línea al final de cada impresión
```

2013-05-11	26
2018-12-22	26
2022-02-05	25
2016-02-02	24
2013-04-04	23
..	
2020-03-22	1

2022-12-11	1
2020-03-23	1
2021-02-28	1
2023-03-11	1

Name: FECHA, Length: 4050, dtype: int64

03. Marzo	3366
02. Febrero	3360
09. Septiembre	3343
05. Mayo	3339
12. Diciembre	3271
08. Agosto	3180
10. Octubre	3167
07. Julio	3147
01. Enero	3081
04. Abril	3009
11. Noviembre	2995
06. Junio	2939

Name: MES, dtype: int64

06. Sabado	6273
05. Viernes	5826
02. Martes	5668
03. Miercoles	5591
04. Jueves	5573
01. Lunes	5261
07. Domingo	4005

Name: DÍA, dtype: int64

Solo Daños	19475
Con Heridos	18051
Con Muertos	562
Con heridos	99
Con muertos	6
Solo daños	4

Name: GRAVEDAD, dtype: int64

CARRERA	16430
CALLE	12313
AUTOPISTA FLORIDA BUCARAMANGA	1239
AVENIDA Q SECA	1113
AUTOPISTA GIRÓN	1095
...	
CALLE ESTUDIANTES	1
TRANSVERSAL 92	1
DIAGONAL 20	1
DIAGONAL 64	1
AVENIDA 61	1

Name: VIA 1, Length: 94, dtype: int64

Centro	3774
Cabecera del Llano	2303
San Francisco	1923
Provenza	1363
Rio de Oro I	1334

...

MONTERREDONDO	1
El Diviso	1
Puerto Rico	1
MODELO	1
Estoraques	1

Name: BARRIO, Length: 255, dtype: int64

04:00:00 p. m.	819
12:30:00 p. m.	542
03:00:00 p. m.	540
07:00:00 p. m.	522
02:00:00 p. m.	515

...

08:42:00 p. m.	1
06:52:00 a. m.	1
10:24:00 a. m.	1
03:57:00 a. m.	1
01:07:00 a. m.	1

Name: HORA, Length: 1119, dtype: int64

AGENTES DTB	35603
AGENTES POLICIA NACIONAL	2588
AGENTES DE TRANSITO DTB	6

Name: ENTIDAD, dtype: int64

12. CABECERA DEL LLANO	6323
03. SAN FRANCISCO	5044
13. ORIENTAL	4966
15. CENTRO	4186
06. LA CONCORDIA	3259
10. PROVENZA	2361
04. OCCIDENTAL	2227
05. GARCIA ROVIRA	1515
01. NORTE	1345
08. SUROCCIDENTE	1325
09. LA PEDREGOSA	1227
07. LA CIUDADELA	882
16. LAGOS DEL CACIQUE	853
11. SUR	685
17. MUTIS	663

02. NORORIENTAL	536
14. MORRORICO	531
SIN INFORMACION	196
FLORIDABLANCA	39
CORREG. 1	8
CORREG. 3	6
18. CORREG. 1	5
08. SUR OCCIDENTE	5
24. CALDAS - REPOSO	3
EL BUENO	3
CORREG. 2	2
30. CORREG	1
GIRON	1

Name: nombrecomuna, dtype: int64

Particular	31947
Empresa	6248
SIN INFORMACION	2

Name: Propietario de Vehículo, dtype: int64

Diurno	27032
Nocturno	11165

Name: DIURNIO/NOCTURNO, dtype: int64

Sin restricción	22023
No aplica	15244
En restricción	735
Sin restriccion	96
SIN INFORMACION	86
En restriccion	7
Sin informacion	6

Name: HORA RESTRICCION MOTO, dtype: int64

9.3.1 2.3.1. Estandarización de Categorías en Variables Relevantes

En la variable GRAVEDAD se identifica errores en las categorias Con Muertos y Con muertos, igualmente en la varable HORA RESTRICCION MOTO, tambien deben ajustarse En restricción y En restriccion igualmetne para Sin restriccion y Sin restricción, el No aplica hace referencia vehiculos diferentes a motocicletas. Para el Caso de entidad sucede lo mismo, la sigla DTB, hace referencia DTB – Dirección de Tránsito de Bucaramanga, en este sentido, solo existirian 2 posibles entidades, la policia y los agentes de transito.

```
[12]: # Corrige errores en la variable 'GRAVEDAD'
data['GRAVEDAD'] = data['GRAVEDAD'].str.replace('Con muertos', 'Con Muertos',
↪case=False)
data['GRAVEDAD'] = data['GRAVEDAD'].str.replace('Con heridos', 'Con Heridos',
↪case=False)
```

```

data['GRAVEDAD'] = data['GRAVEDAD'].str.replace('Solo daños', 'Solo Daños',
↪case=False)

# Corrige errores en la variable 'HORA RESTRICCION MOTO'
data['HORA RESTRICCION MOTO'] = data['HORA RESTRICCION MOTO'].str.replace('En_
↪restriccion', 'En restricción', case=False)
data['HORA RESTRICCION MOTO'] = data['HORA RESTRICCION MOTO'].str.replace('Sin_
↪restriccion', 'Sin restricción', case=False)
data['HORA RESTRICCION MOTO'] = data['HORA RESTRICCION MOTO'].str.replace('SIN_
↪INFORMACION', 'Sin información', case=False)

# Corrige errores en la variable 'ENTIDAD'
data['ENTIDAD'] = data['ENTIDAD'].str.replace('AGENTES DTB', 'AGENTES DE_
↪TRANSITO DTB', case=False)

# Verifica que los cambios se hayan aplicado correctamente
print(data['GRAVEDAD'].value_counts())
print() # Agrega un salto de línea al final de cada impresión
print(data['HORA RESTRICCION MOTO'].value_counts())
print() # Agrega un salto de línea al final de cada impresión
print(data['ENTIDAD'].value_counts())

```

```

Solo Daños      19479
Con Heridos     18150
Con Muertos     568
Name: GRAVEDAD, dtype: int64

```

```

Sin restricción  22119
No aplica        15244
En restricción   742
Sin información  92
Name: HORA RESTRICCION MOTO, dtype: int64

```

```

AGENTES DE TRANSITO DTB      35609
AGENTES POLICIA NACIONAL     2588
Name: ENTIDAD, dtype: int64

```

```

[63]: # Guardar el dataset actualizado en un nuevo archivo CSV
data.to_csv("barrios_con_coordenadas_preprocesado.csv", index=False)

```

9.4 2.4 Inspeccionar las variables en busca de valores atípicos o inusuales que puedan indicar datos erróneos.

Este código generará gráficos de boxplot para las variables numéricas y calculará estadísticas descriptivas, incluyendo percentiles. Luego, identificará valores atípicos basados en el rango intercuartil (IQR) y los imprimirá en el formato de DataFrame

9.4.1 2.4.1. Valores atípicos en Variables numéricas

```
[13]: import matplotlib.pyplot as plt
import seaborn as sns

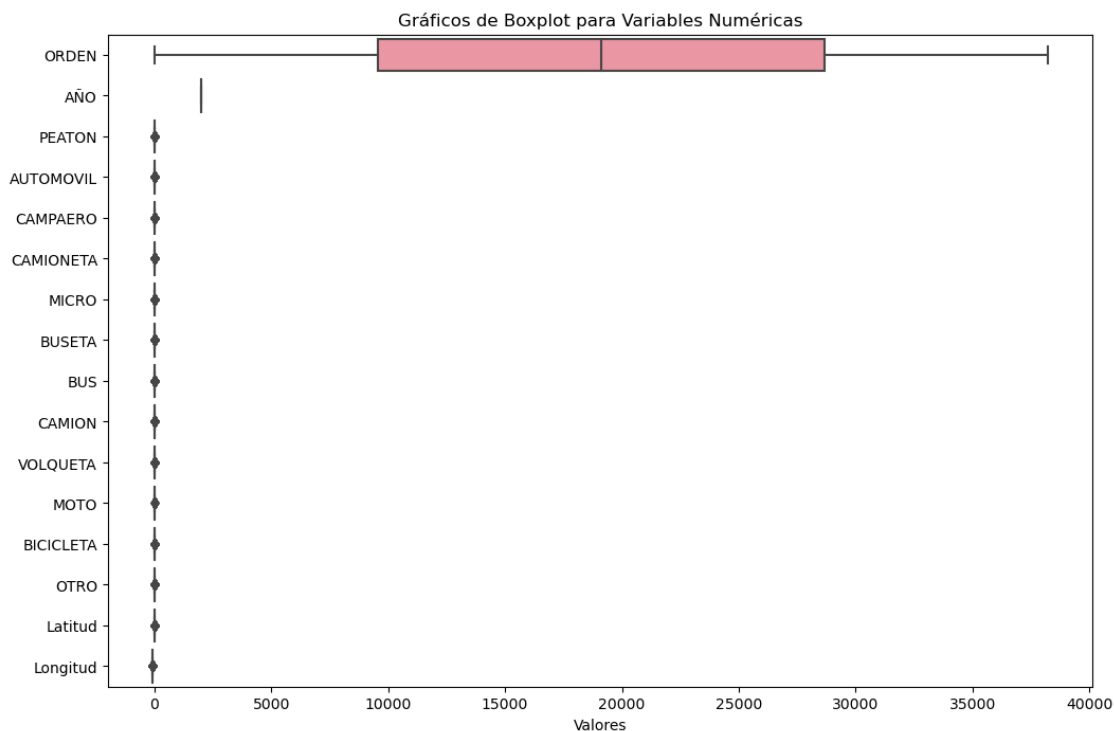
# Variables numéricas
numeric_variables = ['ORDEN', 'AÑO', 'PEATON', 'AUTOMOVIL', 'CAMPAERO', 'CAMIONETA', 'MICRO', 'BUSETA', 'BUS', 'CAMION', 'VOLQUETA', 'MOTO', 'BICICLETA', 'OTRO', 'Latitud', 'Longitud']

# Gráficos de boxplot para identificar valores atípicos
plt.figure(figsize=(12, 8))
sns.boxplot(data=data[numeric_variables], orient='h')
plt.title('Gráficos de Boxplot para Variables Numéricas')
plt.xlabel('Valores')
plt.show()

# Estadísticas descriptivas para identificar valores atípicos
descriptive_stats = data[numeric_variables].describe()
print(descriptive_stats)
print() # Agrega un salto de línea al final de cada impresión

# Identificación de valores atípicos basados en percentiles
print('\033[1m' + 'valores atípicos basados en percentiles' + '\033[0m')
outliers = {}
for column in numeric_variables:
    Q1 = descriptive_stats.loc['25%', column]
    Q3 = descriptive_stats.loc['75%', column]
    IQR = Q3 - Q1
    lower_bound = Q1 - 1.5 * IQR
    upper_bound = Q3 + 1.5 * IQR
    outliers[column] = data[(data[column] < lower_bound) | (data[column] > upper_bound)]
    print() # Agrega un salto de línea al final de cada impresión

# Imprimir los valores atípicos encontrados
print('\033[1m' + 'Los valores atípicos encontrados' + '\033[0m')
for column, outlier_data in outliers.items():
    print(f"Valores atípicos en la variable '{column}':")
    print(outlier_data)
    print() # Agrega un salto de línea al final de cada impresión
```



	ORDEN	AÑO	PEATON	AUTOMOVIL	CAMPAERO \
count	38197.000000	38197.000000	38197.000000	38197.000000	38197.000000
mean	19099.000000	2016.480430	0.10472	0.786292	0.060947
std	11026.668453	3.063243	0.33937	0.743994	0.245928
min	1.000000	2012.000000	0.00000	0.000000	0.000000
25%	9550.000000	2014.000000	0.00000	0.000000	0.000000
50%	19099.000000	2016.000000	0.00000	1.000000	0.000000
75%	28648.000000	2019.000000	0.00000	1.000000	0.000000
max	38197.000000	2023.000000	7.00000	29.000000	2.000000

	CAMIONETA	MICRO	BUSETA	BUS	CAMION \
count	38197.000000	38197.000000	38197.000000	38197.000000	38197.000000
mean	0.197555	0.020290	0.044061	0.048198	0.083279
std	0.432211	0.141916	0.211639	0.218303	0.287543
min	0.000000	0.000000	0.000000	0.000000	0.000000
25%	0.000000	0.000000	0.000000	0.000000	0.000000
50%	0.000000	0.000000	0.000000	0.000000	0.000000
75%	0.000000	0.000000	0.000000	0.000000	0.000000
max	3.000000	2.000000	2.000000	2.000000	3.000000

	VOLQUETA	MOTO	BICICLETA	OTRO	Latitud \
count	38197.000000	38197.000000	38197.000000	38197.000000	38197.000000
mean	0.014242	0.611697	0.017384	0.021075	7.117426
std	0.120025	0.652550	0.132290	0.149355	0.017941

min	0.000000	0.000000	0.000000	0.000000	6.982270
25%	0.000000	0.000000	0.000000	0.000000	7.107250
50%	0.000000	1.000000	0.000000	0.000000	7.117110
75%	0.000000	1.000000	0.000000	0.000000	7.127280
max	2.000000	8.000000	3.000000	2.000000	7.218160

```

                Longitud
count  38197.000000
mean   -73.121426
std     0.011464
min    -73.167780
25%    -73.127370
50%    -73.119850
75%    -73.113840
max    -73.050230

```

valores atípicos basados en percentiles

Los valores atípicos encontrados

Valores atípicos en la variable 'ORDEN':

Empty DataFrame

Columns: [ORDEN, FECHA, AÑO, MES, DÍA, GRAVEDAD, PEATON, AUTOMOVIL, CAMPAERO, CAMIONETA, MICRO, BUSETA, BUS, CAMION, VOLQUETA, MOTO, BICICLETA, OTRO, VIA 1, BARRIO, HORA, ENTIDAD, nombrecomuna, Propietario de Vehículo, DIURNIO/NOCTURNO, HORA RESTRICCION MOTO, Latitud, Longitud]

Index: []

[0 rows x 28 columns]

Valores atípicos en la variable 'AÑO':

Empty DataFrame

Columns: [ORDEN, FECHA, AÑO, MES, DÍA, GRAVEDAD, PEATON, AUTOMOVIL, CAMPAERO, CAMIONETA, MICRO, BUSETA, BUS, CAMION, VOLQUETA, MOTO, BICICLETA, OTRO, VIA 1,

BARRIO, HORA, ENTIDAD, nombrecomuna, Propietario de Vehículo, DIURNIO/NOCTURNO, HORA RESTRICCION MOTO, Latitud, Longitud]

Index: []

[0 rows x 28 columns]

Valores atípicos en la variable 'PEATON':

	ORDEN	FECHA	AÑO	MES	DÍA	GRAVEDAD	PEATON \
4	5	2012-01-01	2012	01. Enero	07. Domingo	Con Heridos	1
6	7	2012-01-02	2012	01. Enero	01. Lunes	Con Heridos	1
34	35	2012-01-05	2012	01. Enero	04. Jueves	Con Heridos	1
36	37	2012-01-05	2012	01. Enero	04. Jueves	Con Heridos	1
40	41	2012-01-05	2012	01. Enero	04. Jueves	Con Heridos	1
...
38165	38166	2023-02-21	2023	02. Febrero	02. Martes	Con Heridos	1
38169	38170	2023-02-23	2023	02. Febrero	04. Jueves	Con Heridos	1
38173	38174	2023-02-23	2023	02. Febrero	04. Jueves	Con Heridos	1
38179	38180	2023-02-25	2023	02. Febrero	06. Sabado	Con Heridos	1
38183	38184	2023-02-25	2023	02. Febrero	06. Sabado	Con Heridos	1

	AUTOMOVIL	CAMPAERO	CAMIONETA	...	VIA 1 \
4	0	0	0	...	CARRERA
6	0	0	0	...	CARRERA
34	1	0	0	...	AVENIDA Q SECA
36	0	0	1	...	CARRERA
40	1	0	0	...	CARRERA
...
38165	1	0	0	...	CARRERA
38169	0	1	0	...	CALLE
38173	0	0	0	...	CARRERA
38179	0	0	0	...	DIAGONAL 15
38183	0	0	0	...	CALLE

	BARRIO	HORA	ENTIDAD \
4	Dangond	12:30:00 a. m.	AGENTES DE TRANSITO DTB
6	La Pedregosa	01:50:00 p. m.	AGENTES DE TRANSITO DTB
34	Alarcon	09:30:00 a. m.	AGENTES DE TRANSITO DTB
36	Antonia Santos Centro	10:40:00 a. m.	AGENTES DE TRANSITO DTB
40	Cabecera del Llano	04:15:00 p. m.	AGENTES DE TRANSITO DTB
...
38165	Sotomayor	07:10:00 p. m.	AGENTES DE TRANSITO DTB
38169	Centro	11:05:00 a. m.	AGENTES DE TRANSITO DTB
38173	Gaitan	09:50:00 p. m.	AGENTES DE TRANSITO DTB
38179	Ricaurte	10:20:00 a. m.	AGENTES DE TRANSITO DTB
38183	Provenza	06:45:00 p. m.	AGENTES DE TRANSITO DTB

	nombrecomuna	Propietario de Vehículo	DIURNIO/NOCTURNO \
4	11. SUR	Particular	Nocturno

6	09. LA PEDREGOSA	Empresa	Diurno
34	03. SAN FRANCISCO	Particular	Diurno
36	13. ORIENTAL	Particular	Diurno
40	12. CABECERA DEL LLANO	Particular	Diurno
...
38165	12. CABECERA DEL LLANO	Particular	Nocturno
38169	15. CENTRO	Particular	Diurno
38173	04. OCCIDENTAL	Particular	Nocturno
38179	06. LA CONCORDIA	Particular	Diurno
38183	10. PROVENZA	Particular	Nocturno

	HORA RESTRICCIÓN MOTO	Latitud	Longitud
4	En restricción	7.07830	-73.12300
6	No aplica	7.09644	-73.10752
34	No aplica	7.12608	-73.12299
36	No aplica	7.12307	-73.11985
40	Sin restricción	7.11503	-73.10739
...
38165	Sin restricción	7.11575	-73.11384
38169	Sin restricción	7.11892	-73.12353
38173	Sin restricción	7.13135	-73.13283
38179	Sin restricción	7.10725	-73.11751
38183	Sin restricción	7.08488	-73.11585

[3689 rows x 28 columns]

Valores atípicos en la variable 'AUTOMOVIL':

	ORDEN	FECHA	AÑO	MES	DÍA	GRAVEDAD \
20	21	2012-01-04	2012	01. Enero	03. Miercoles	Solo Daños
85	86	2012-01-11	2012	01. Enero	03. Miercoles	Solo Daños
123	124	2012-01-14	2012	01. Enero	06. Sabado	Solo Daños
460	461	2012-02-14	2012	02. Febrero	02. Martes	Solo Daños
524	525	2012-02-18	2012	02. Febrero	06. Sabado	Solo Daños
...
37580	37559	2022-09-15	2022	09. Septiembre	04. Jueves	Con Heridos
37700	37679	2022-10-10	2022	10. Octubre	01. Lunes	Con Heridos
37873	37874	2022-12-01	2022	12. Diciembre	04. Jueves	Con Heridos
37937	37938	2022-12-19	2022	12. Diciembre	01. Lunes	Con Heridos
37977	37978	2022-12-30	2022	12. Diciembre	05. Viernes	Con Heridos

	PEATON	AUTOMOVIL	CAMPAERO	CAMIONETA	...	VIA 1 \
20	0	3	0	0	...	CALLE
85	0	3	0	0	...	CARRERA
123	0	3	0	1	...	AUTOPISTA NORTE
460	0	3	0	0	...	CALLE
524	0	3	0	0	...	CARRERA
...
37580	0	3	0	0	...	CARRERA

37700	0	3	0	0 ...	CARRERA
37873	0	4	0	0 ...	CARRERA
37937	0	3	0	1 ...	DIAGONAL
37977	0	3	0	0 ...	CARRERA

	BARRIO	HORA	ENTIDAD \
20	Asturias	07:00:00 p. m.	AGENTES DE TRANSITO DTB
85	Cabecera del Llano	10:30:00 p. m.	AGENTES DE TRANSITO DTB
123	Manuela Beltran	12:30:00 p. m.	AGENTES DE TRANSITO DTB
460	Alfonso Lopez	06:40:00 p. m.	AGENTES DE TRANSITO DTB
524	SIN INFORMACION	08:45:00 a. m.	AGENTES DE TRANSITO DTB
...
37580	El Prado	11:00:00 a. m.	AGENTES DE TRANSITO DTB
37700	La Salle	04:30:00 p. m.	AGENTES DE TRANSITO DTB
37873	Mejoras Publicas	06:40:00 a. m.	AGENTES DE TRANSITO DTB
37937	Antiguo Campestre	03:25:00 p. m.	AGENTES DE TRANSITO DTB
37977	Cabecera del Llano	10:25:00 a. m.	AGENTES DE TRANSITO DTB

	nombrecomuna	Propietario de Vehículo	DIURNIO/NOCTURNO \
20	09. LA PEDREGOSA	Empresa	Nocturno
85	12. CABECERA DEL LLANO	Particular	Nocturno
123	11. SUR	Empresa	Diurno
460	05. GARCIA ROVIRA	Empresa	Nocturno
524	SIN INFORMACION	Empresa	Diurno
...
37580	13. ORIENTAL	Particular	Diurno
37700	06. LA CONCORDIA	Particular	Diurno
37873	13. ORIENTAL	Particular	Diurno
37937	12. CABECERA DEL LLANO	Particular	Diurno
37977	12. CABECERA DEL LLANO	Particular	Diurno

	HORA RESTRICCION MOTO	Latitud	Longitud
20	No aplica	7.12067	-73.12087
85	No aplica	7.11503	-73.10739
123	No aplica	7.08444	-73.12404
460	No aplica	7.11443	-73.13220
524	No aplica	7.11711	-73.12924
...
37580	Sin restricción	7.12395	-73.11072
37700	Sin restricción	7.10138	-73.11215
37873	Sin restricción	7.12340	-73.11463
37937	Sin restricción	7.11238	-73.11130
37977	Sin restricción	7.11503	-73.10739

[359 rows x 28 columns]

Valores atípicos en la variable 'CAMPAERO':

ORDEN	FECHA	AÑO	MES	DÍA	GRAVEDAD \
-------	-------	-----	-----	-----	------------

26	27	2012-01-04	2012	01. Enero	03. Miercoles	Con Heridos
55	56	2012-01-07	2012	01. Enero	06. Sabado	Solo Daños
97	98	2012-01-11	2012	01. Enero	03. Miercoles	Solo Daños
108	109	2012-01-13	2012	01. Enero	05. Viernes	Con Heridos
127	128	2012-01-14	2012	01. Enero	06. Sabado	Solo Daños
...
37995	37996	2023-01-05	2023	01. Enero	04. Jueves	Con Heridos
38059	38060	2023-01-28	2023	01. Enero	06. Sabado	Con Heridos
38136	38137	2023-02-14	2023	02. Febrero	02. Martes	Con Heridos
38164	38165	2023-02-21	2023	02. Febrero	02. Martes	Con Heridos
38169	38170	2023-02-23	2023	02. Febrero	04. Jueves	Con Heridos

	PEATON	AUTOMOVIL	CAMPAERO	CAMIONETA	...	VIA 1 \
26	0	0	1	0	...	CARRERA
55	0	1	1	0	...	CALLE
97	0	1	1	0	...	CALLE
108	0	0	1	0	...	BOULEVAR BOLIVAR
127	0	1	1	0	...	CARRERA
...
37995	0	0	1	0	...	CARRERA
38059	0	0	1	0	...	CARRERA
38136	0	0	1	0	...	CALLE
38164	0	0	1	0	...	CARRERA
38169	1	0	1	0	...	CALLE

	BARRIO	HORA	ENTIDAD \
26	Alarcon	03:00:00 p. m.	AGENTES DE TRANSITO DTB
55	Cabecera del Llano	11:45:00 a. m.	AGENTES DE TRANSITO DTB
97	Cabecera del Llano	12:15:00 p. m.	AGENTES DE TRANSITO DTB
108	San Francisco	03:45:00 p. m.	AGENTES DE TRANSITO DTB
127	Nuevo Sotomayor	04:20:00 p. m.	AGENTES DE TRANSITO DTB
...
37995	Garcia Rovira	02:30:00 p. m.	AGENTES DE TRANSITO DTB
38059	San Alonso	03:50:00 p. m.	AGENTES DE TRANSITO DTB
38136	Alarcon	09:30:00 a. m.	AGENTES DE TRANSITO DTB
38164	Cabecera del Llano	08:10:00 p. m.	AGENTES DE TRANSITO DTB
38169	Centro	11:05:00 a. m.	AGENTES DE TRANSITO DTB

	nombrecomuna	Propietario de Vehículo	DIURNIO/NOCTURNO \
26	03. SAN FRANCISCO	Particular	Diurno
55	12. CABECERA DEL LLANO	Particular	Diurno
97	12. CABECERA DEL LLANO	Particular	Diurno
108	03. SAN FRANCISCO	Empresa	Diurno
127	12. CABECERA DEL LLANO	Particular	Diurno
...
37995	15. CENTRO	Particular	Diurno
38059	13. ORIENTAL	Particular	Diurno
38136	03. SAN FRANCISCO	Particular	Diurno

38164	12. CABECERA DEL LLANO	Particular	Nocturno
38169	15. CENTRO	Particular	Diurno

	HORA	RESTRICCION MOTO	Latitud	Longitud
26		Sin restricción	7.12608	-73.12299
55		No aplica	7.11503	-73.10739
97		No aplica	7.11503	-73.10739
108		Sin restricción	7.13163	-73.12575
127		No aplica	7.11505	-73.11625
...	
37995		Sin restricción	7.09920	-73.15155
38059		Sin restricción	7.13239	-73.11680
38136		Sin restricción	7.12608	-73.12299
38164		Sin restricción	7.11503	-73.10739
38169		Sin restricción	7.11892	-73.12353

[2266 rows x 28 columns]

Valores atípicos en la variable 'CAMIONETA':

	ORDEN	FECHA	AÑO	MES	DÍA	GRAVEDAD	PEATON	\
1	2	2012-01-01	2012	01. Enero	07. Domingo	Solo Daños	0	
2	3	2012-01-01	2012	01. Enero	07. Domingo	Solo Daños	0	
3	4	2012-01-01	2012	01. Enero	07. Domingo	Solo Daños	0	
7	8	2012-01-02	2012	01. Enero	01. Lunes	Solo Daños	0	
16	17	2012-01-03	2012	01. Enero	02. Martes	Solo Daños	0	
...
38127	38128	2023-02-11	2023	02. Febrero	06. Sabado	Con Heridos	0	
38129	38130	2023-02-11	2023	02. Febrero	06. Sabado	Con Heridos	0	
38142	38143	2023-02-16	2023	02. Febrero	04. Jueves	Con Heridos	0	
38152	38153	2023-02-18	2023	02. Febrero	06. Sabado	Con Heridos	0	
38182	38183	2023-02-25	2023	02. Febrero	06. Sabado	Con Heridos	0	

	AUTOMOVIL	CAMPAERO	CAMIONETA	...	VIA 1	\
1	1	0	1	...	VIA MATANZA	
2	0	0	1	...	CARRERA	
3	1	0	1	...	CARRERA	
7	0	0	2	...	TRANSVERSAL METROPOLITANA	
16	0	0	1	...	CALLE	
...
38127	1	0	1	...	CARRERA	
38129	0	0	1	...	CALLE	
38142	0	0	1	...	CALLE	
38152	1	0	1	...	CALLE	
38182	0	0	1	...	CARRERA	

	BARRIO	HORA	ENTIDAD	\
1	Regaderos Norte	02:00:00 p. m.	AGENTES DE TRANSITO DTB	
2	Cabecera del Llano	12:00:00 p. m.	AGENTES DE TRANSITO DTB	

3	Norte Bajo	06:30:00 p. m.	AGENTES DE TRANSITO DTB
7	Bucaramanga	07:20:00 p. m.	AGENTES DE TRANSITO DTB
16	Centro	06:10:00 p. m.	AGENTES DE TRANSITO DTB
...
38127	Sotomayor	02:28:00 a. m.	AGENTES DE TRANSITO DTB
38129	Comuneros	10:05:00 a. m.	AGENTES DE TRANSITO DTB
38142	Centro	08:15:00 a. m.	AGENTES DE TRANSITO DTB
38152	Rio de Oro I	05:00:00 p. m.	AGENTES DE TRANSITO DTB
38182	Cabecera del Llano	04:50:00 p. m.	AGENTES DE TRANSITO DTB

	nombrecomuna	Propietario de Vehículo	DIURNIO/NOCTURNO \
1	02. NORORIENTAL	Empresa	Diurno
2	12. CABECERA DEL LLANO	Particular	Diurno
3	03. SAN FRANCISCO	Particular	Nocturno
7	08. SUROCCIDENTE	Particular	Nocturno
16	15. CENTRO	Particular	Nocturno
...
38127	12. CABECERA DEL LLANO	Particular	Nocturno
38129	03. SAN FRANCISCO	Particular	Diurno
38142	15. CENTRO	Particular	Diurno
38152	04. OCCIDENTAL	Particular	Diurno
38182	12. CABECERA DEL LLANO	Particular	Diurno

	HORA RESTRICCIÓN MOTO	Latitud	Longitud
1	No aplica	7.14582	-73.12332
2	No aplica	7.11503	-73.10739
3	No aplica	7.14241	-73.13523
7	No aplica	7.11711	-73.12924
16	Sin restricción	7.11892	-73.12353
...
38127	Sin restricción	7.11575	-73.11384
38129	Sin restricción	7.13873	-73.12737
38142	Sin restricción	7.11892	-73.12353
38152	Sin restricción	7.14169	-73.15246
38182	Sin restricción	7.11503	-73.10739

[7017 rows x 28 columns]

Valores atípicos en la variable 'MICRO':

	ORDEN	FECHA	AÑO	MES	DÍA	GRAVEDAD \
6	7	2012-01-02	2012	01. Enero	01. Lunes	Con Heridos
15	16	2012-01-03	2012	01. Enero	02. Martes	Solo Daños
117	118	2012-01-14	2012	01. Enero	06. Sabado	Con Heridos
152	153	2012-01-17	2012	01. Enero	02. Martes	Con Heridos
176	177	2012-01-19	2012	01. Enero	04. Jueves	Solo Daños
...
37569	37548	2022-09-12	2022	09. Septiembre	01. Lunes	Con Heridos
37646	37625	2022-09-27	2022	09. Septiembre	02. Martes	Con Heridos

37727	37706	2022-10-19	2022	10. Octubre	03. Miercoles	Con Heridos
37945	37946	2022-12-21	2022	12. Diciembre	03. Miercoles	Con Heridos
38002	38003	2023-01-08	2023	01. Enero	07. Domingo	Solo Daños

	PEATON	AUTOMOVIL	CAMPAERO	CAMIONETA	...	VIA 1 \
6	1	0	0	0	...	CARRERA
15	0	0	0	0	...	AUTOPISTA NORTE
117	0	0	0	0	...	CARRERA
152	0	0	0	0	...	CALLE
176	0	1	0	0	...	CARRERA
...
37569	0	0	0	0	...	CARRERA
37646	0	0	0	0	...	AUTOPISTA NORTE
37727	0	1	0	0	...	CARRERA
37945	0	1	0	0	...	CARRERA
38002	0	1	0	0	...	CALLE

	BARRIO	HORA	ENTIDAD \
6	La Pedregosa	01:50:00 p. m.	AGENTES DE TRANSITO DTB
15	Cafe Madrid	10:10:00 p. m.	AGENTES DE TRANSITO DTB
117	Ricaurte	02:30:00 p. m.	AGENTES DE TRANSITO DTB
152	Provenza	09:55:00 a. m.	AGENTES DE TRANSITO DTB
176	Centro	04:45:00 p. m.	AGENTES DE TRANSITO DTB
...
37569	Cabecera del Llano	06:00:00 p. m.	AGENTES DE TRANSITO DTB
37646	Rio de Oro I	03:30:00 p. m.	AGENTES DE TRANSITO DTB
37727	Alarcon	11:30:00 a. m.	AGENTES DE TRANSITO DTB
37945	La Salle	04:10:00 a. m.	AGENTES DE TRANSITO DTB
38002	SIN INFORMACION	12:10:00 p. m.	AGENTES DE TRANSITO DTB

	nombrecomuna	Propietario de Vehículo	DIURNIO/NOCTURNO \
6	09. LA PEDREGOSA	Empresa	Diurno
15	01. NORTE	Empresa	Nocturno
117	06. LA CONCORDIA	Empresa	Diurno
152	10. PROVENZA	Particular	Diurno
176	15. CENTRO	Empresa	Diurno
...
37569	12. CABECERA DEL LLANO	Particular	Diurno
37646	01. NORTE	Particular	Diurno
37727	03. SAN FRANCISCO	Empresa	Diurno
37945	06. LA CONCORDIA	Particular	Nocturno
38002	SIN INFORMACION	Particular	Diurno

	HORA RESTRICCIÓN MOTO	Latitud	Longitud
6	No aplica	7.09644	-73.10752
15	No aplica	7.16257	-73.14171
117	Sin restricción	7.10725	-73.11751
152	Sin restricción	7.08488	-73.11585

176	No aplica	7.11892	-73.12353
...
37569	Sin restricción	7.11503	-73.10739
37646	Sin restricción	7.14169	-73.15246
37727	Sin restricción	7.12608	-73.12299
37945	Sin restricción	7.10138	-73.11215
38002	Sin restricción	7.11711	-73.12924

[770 rows x 28 columns]

Valores atípicos en la variable 'BUSETA':

	ORDEN	FECHA	AÑO	MES	DÍA	GRAVEDAD \
45	46	2012-01-06	2012	01. Enero	05. Viernes	Con Heridos
101	102	2012-01-12	2012	01. Enero	04. Jueves	Solo Daños
103	104	2012-01-12	2012	01. Enero	04. Jueves	Solo Daños
112	113	2012-01-13	2012	01. Enero	05. Viernes	Solo Daños
119	120	2012-01-14	2012	01. Enero	06. Sabado	Solo Daños
...
38044	38045	2023-01-24	2023	01. Enero	02. Martes	Con Heridos
38065	38066	2023-01-29	2023	01. Enero	07. Domingo	Con Heridos
38135	38136	2023-02-13	2023	02. Febrero	01. Lunes	Con Heridos
38140	38141	2023-02-15	2023	02. Febrero	03. Miercoles	Con Heridos
38189	38190	2023-02-28	2023	02. Febrero	02. Martes	Con Heridos

	PEATON	AUTOMOVIL	CAMPAERO	CAMIONETA	...	VIA 1 \
45	1	0	0	0	...	CALLE
101	0	0	0	1	...	CARRERA
103	0	0	0	0	...	CALLE
112	0	0	0	0	...	AUTOPISTA NORTE
119	0	0	0	0	...	CARRERA
...
38044	0	0	0	0	...	AUTOPISTA NORTE
38065	0	0	0	0	...	CALLE
38135	0	0	0	0	...	CARRERA
38140	1	0	0	0	...	CARRERA
38189	0	0	0	0	...	AUTOPISTA GIRÓN

	BARRIO	HORA	ENTIDAD \
45	Mejoras Publicas	08:30:00 p. m.	AGENTES DE TRANSITO DTB
101	Centro	03:10:00 p. m.	AGENTES DE TRANSITO DTB
103	Esperanza I	08:10:00 a. m.	AGENTES DE TRANSITO DTB
112	San Rafael	06:20:00 p. m.	AGENTES DE TRANSITO DTB
119	Centro	09:30:00 a. m.	AGENTES DE TRANSITO DTB
...
38044	SIN INFORMACION	06:30:00 a. m.	AGENTES DE TRANSITO DTB
38065	Campo Hermoso	05:20:00 p. m.	AGENTES DE TRANSITO DTB
38135	Mutis	08:30:00 a. m.	AGENTES DE TRANSITO DTB
38140	El Prado	04:40:00 p. m.	AGENTES DE TRANSITO DTB

38189 SIN INFORMACION 01:45:00 p. m. AGENTES DE TRANSITO DTB

	nombrecomuna	Propietario de Vehículo	DIURNIO/NOCTURNO \
45	13. ORIENTAL	Empresa	Nocturno
101	15. CENTRO	Empresa	Diurno
103	02. NORORIENTAL	Particular	Diurno
112	02. NORORIENTAL	Empresa	Nocturno
119	15. CENTRO	Empresa	Diurno
...
38044	SIN INFORMACION	Particular	Diurno
38065	05. GARCIA ROVIRA	Empresa	Diurno
38135	17. MUTIS	Empresa	Diurno
38140	13. ORIENTAL	Empresa	Diurno
38189	SIN INFORMACION	Empresa	Diurno

	HORA RESTRICCION MOTO	Latitud	Longitud
45	No aplica	7.12340	-73.11463
101	No aplica	7.11892	-73.12353
103	No aplica	7.21816	-73.09328
112	No aplica	7.13894	-73.13452
119	No aplica	7.11892	-73.12353
...
38044	Sin restricción	7.11711	-73.12924
38065	Sin restricción	7.10669	-73.13759
38135	Sin restricción	7.09934	-73.13087
38140	Sin restricción	7.12395	-73.11072
38189	Sin restricción	7.11711	-73.12924

[1632 rows x 28 columns]

Valores atípicos en la variable 'BUS':

	ORDEN	FECHA	AÑO	MES	DÍA	GRAVEDAD \
29	30	2012-01-05	2012	01. Enero	04. Jueves	Con Heridos
58	59	2012-01-08	2012	01. Enero	07. Domingo	Con Heridos
77	78	2012-01-10	2012	01. Enero	02. Martes	Con Heridos
213	214	2012-01-23	2012	01. Enero	01. Lunes	Solo Daños
217	218	2012-01-23	2012	01. Enero	01. Lunes	Solo Daños
...
37853	37854	2022-11-27	2022	11. Noviembre	07. Domingo	Con Heridos
38023	38024	2023-01-17	2023	01. Enero	02. Martes	Con Heridos
38072	38073	2023-01-31	2023	01. Enero	02. Martes	Con Heridos
38104	38105	2023-02-05	2023	02. Febrero	07. Domingo	Con Heridos
38141	38142	2023-02-16	2023	02. Febrero	04. Jueves	Con Heridos

	PEATON	AUTOMOVIL	CAMPAERO	CAMIONETA	... \
29	0	1	0	0	...
58	1	0	0	0	...
77	0	0	0	0	...

213	0	0	0	0	...
217	0	0	0	1	...
...
37853	0	0	0	0	...
38023	0	0	0	0	...
38072	0	0	0	0	...
38104	1	0	0	0	...
38141	0	0	0	0	...

	VIA 1	BARRIO	HORA \
29	CARRERA	Antonia Santos Centro	01:00:00 p. m.
58	CARRERA	Cafe Madrid	10:11:00 a. m.
77	AUTOPISTA FLORIDA BUCARAMANGA	Provenza	10:40:00 a. m.
213	AUTOPISTA FLORIDA BUCARAMANGA	Antonia Santos Sur	07:35:00 p. m.
217	BOULEVAR BOLIVAR	Comuneros	08:45:00 a. m.
...
37853	CARRERA	Provenza	09:05:00 p. m.
38023	CARRERA	Norte Bajo	10:30:00 a. m.
38072	CALLE	SIN INFORMACION	09:35:00 a. m.
38104	CARRERA	San Rafael	05:20:00 p. m.
38141	CALLE	SIN INFORMACION	09:00:00 a. m.

	ENTIDAD	nombrecomuna	Propietario de Vehículo \
29	AGENTES DE TRANSITO DTB	13. ORIENTAL	Empresa
58	AGENTES DE TRANSITO DTB	01. NORTE	Empresa
77	AGENTES DE TRANSITO DTB	10. PROVENZA	Empresa
213	AGENTES DE TRANSITO DTB	09. LA PEDREGOSA	Particular
217	AGENTES DE TRANSITO DTB	03. SAN FRANCISCO	Empresa
...
37853	AGENTES DE TRANSITO DTB	10. PROVENZA	Particular
38023	AGENTES DE TRANSITO DTB	03. SAN FRANCISCO	Particular
38072	AGENTES DE TRANSITO DTB	SIN INFORMACION	Empresa
38104	AGENTES DE TRANSITO DTB	03. SAN FRANCISCO	Empresa
38141	AGENTES DE TRANSITO DTB	SIN INFORMACION	Particular

	DIURNIO/NOCTURNO	HORA RESTRICCION MOTO	Latitud	Longitud
29	Diurno	No aplica	7.12307	-73.11985
58	Diurno	No aplica	7.16257	-73.14171
77	Diurno	Sin restricci3n	7.08488	-73.11585
213	Nocturno	No aplica	7.10154	-73.11127
217	Diurno	No aplica	7.13873	-73.12737
...
37853	Nocturno	Sin restricci3n	7.08488	-73.11585
38023	Diurno	Sin restricci3n	7.14241	-73.13523
38072	Diurno	Sin restricci3n	7.11711	-73.12924
38104	Diurno	Sin restricci3n	7.13894	-73.13452
38141	Diurno	Sin restricci3n	7.11711	-73.12924

[1807 rows x 28 columns]

Valores atípicos en la variable 'CAMION':

	ORDEN	FECHA	AÑO	MES	DÍA	GRAVEDAD \
11	12	2012-01-02	2012	01. Enero	01. Lunes	Solo Daños
15	16	2012-01-03	2012	01. Enero	02. Martes	Solo Daños
30	31	2012-01-05	2012	01. Enero	04. Jueves	Con Heridos
35	36	2012-01-05	2012	01. Enero	04. Jueves	Solo Daños
73	74	2012-01-10	2012	01. Enero	02. Martes	Con Heridos
...
37990	37991	2023-01-02	2023	01. Enero	01. Lunes	Con Heridos
38098	38099	2023-02-04	2023	02. Febrero	06. Sabado	Con Heridos
38102	38103	2023-02-04	2023	02. Febrero	06. Sabado	Con Heridos
38115	38116	2023-02-08	2023	02. Febrero	03. Miercoles	Con Heridos
38170	38171	2023-02-23	2023	02. Febrero	04. Jueves	Con Heridos

	PEATON	AUTOMOVIL	CAMPAERO	CAMIONETA	...	VIA 1 \
11	0	0	0	0	...	AUTOPISTA NORTE
15	0	0	0	0	...	AUTOPISTA NORTE
30	0	0	0	0	...	CALLE
35	0	1	0	0	...	ANILLO VIAL
73	0	1	0	0	...	AUTOPISTA NORTE
...
37990	0	0	0	0	...	CARRERA
38098	0	0	0	0	...	CARRERA
38102	0	0	0	0	...	CARRERA
38115	0	0	0	0	...	CALLE
38170	0	0	0	0	...	CARRERA

	BARRIO	HORA	ENTIDAD \
11	Norte Bajo	08:20:00 a. m.	AGENTES DE TRANSITO DTB
15	Cafe Madrid	10:10:00 p. m.	AGENTES DE TRANSITO DTB
30	Centro	05:45:00 p. m.	AGENTES DE TRANSITO DTB
35	Rio de Oro I	09:00:00 a. m.	AGENTES DE TRANSITO DTB
73	Colorados	09:00:00 a. m.	AGENTES DE TRANSITO DTB
...
37990	Cafe Madrid	03:00:00 a. m.	AGENTES DE TRANSITO DTB
38098	Gaitan	03:50:00 a. m.	AGENTES DE TRANSITO DTB
38102	San Francisco	07:40:00 p. m.	AGENTES DE TRANSITO DTB
38115	Antonia Santos Centro	05:00:00 p. m.	AGENTES DE TRANSITO DTB
38170	Chapinero	12:00:00 p. m.	AGENTES DE TRANSITO DTB

	nombrecomuna	Propietario de Vehículo	DIURNIO/NOCTURNO \
11	02. NORORIENTAL	Empresa	Diurno
15	01. NORTE	Empresa	Nocturno
30	15. CENTRO	Particular	Diurno
35	04. OCCIDENTAL	Particular	Diurno
73	01. NORTE	Particular	Diurno

...
37990	01. NORTE	Particular	Nocturno
38098	04. OCCIDENTAL	Particular	Nocturno
38102	03. SAN FRANCISCO	Particular	Nocturno
38115	13. ORIENTAL	Particular	Diurno
38170	03. SAN FRANCISCO	Particular	Diurno

	HORA RESTRICCIÓN MOTO	Latitud	Longitud
11	Sin restricción	7.14241	-73.13523
15	No aplica	7.16257	-73.14171
30	Sin restricción	7.11892	-73.12353
35	No aplica	7.14169	-73.15246
73	No aplica	7.17844	-73.13299
...
37990	En restricción	7.16257	-73.14171
38098	En restricción	7.13135	-73.13283
38102	Sin restricción	7.13163	-73.12575
38115	Sin restricción	7.12307	-73.11985
38170	Sin restricción	7.13926	-73.13277

[3062 rows x 28 columns]

Valores atípicos en la variable 'VOLQUETA':

	ORDEN	FECHA	AÑO	MES	DÍA	GRAVEDAD \
14	15	2012-01-03	2012	01. Enero	02. Martes	Con Heridos
42	43	2012-01-06	2012	01. Enero	05. Viernes	Solo Daños
51	52	2012-01-07	2012	01. Enero	06. Sabado	Solo Daños
103	104	2012-01-12	2012	01. Enero	04. Jueves	Solo Daños
194	195	2012-01-21	2012	01. Enero	06. Sabado	Solo Daños
...
37545	37524	2022-09-08	2022	09. Septiembre	04. Jueves	Solo Daños
37777	37756	2022-11-01	2022	11. Noviembre	02. Martes	Con Heridos
37802	37796	2022-11-11	2022	11. Noviembre	05. Viernes	Con Heridos
37890	37891	2022-12-07	2022	12. Diciembre	03. Miercoles	Con Heridos
38035	38036	2023-01-21	2023	01. Enero	06. Sabado	Con Heridos

	PEATON	AUTOMOVIL	CAMPAERO	CAMIONETA	...	VIA 1 \
14	0	0	0	0	...	CARRERA
42	0	0	0	0	...	CALLE 45 VIA CHIMITA
51	0	0	0	1	...	CARRERA
103	0	0	0	0	...	CALLE
194	0	2	0	0	...	CALLE
...
37545	0	1	0	0	...	CARRERA
37777	0	1	0	1	...	AUTOPISTA CUCUTA
37802	0	0	0	0	...	CARRERA
37890	0	1	0	0	...	CARRERA
38035	0	0	0	0	...	CARRERA

	BARRIO	HORA	ENTIDAD \
14	Nuevo Sotomayor	06:45:00 a. m.	AGENTES DE TRANSITO DTB
42	Rio de Oro I	04:05:00 p. m.	AGENTES DE TRANSITO DTB
51	Comuneros	06:55:00 p. m.	AGENTES DE TRANSITO DTB
103	Esperanza I	08:10:00 a. m.	AGENTES DE TRANSITO DTB
194	Centro	11:15:00 a. m.	AGENTES DE TRANSITO DTB
...
37545	Garcia Rovira	01:20:00 p. m.	AGENTES DE TRANSITO DTB
37777	Buenavista	08:10:00 a. m.	AGENTES DE TRANSITO DTB
37802	Comuneros	09:00:00 a. m.	AGENTES DE TRANSITO DTB
37890	San Francisco	10:00:00 a. m.	AGENTES DE TRANSITO DTB
38035	La Aurora	03:00:00 p. m.	AGENTES DE TRANSITO DTB

	nombrecomuna	Propietario de Vehículo	DIURNIO/NOCTURNO \
14	12. CABECERA DEL LLANO	Empresa	Diurno
42	04. OCCIDENTAL	Particular	Diurno
51	03. SAN FRANCISCO	Particular	Nocturno
103	02. NORORIENTAL	Particular	Diurno
194	15. CENTRO	Empresa	Diurno
...
37545	15. CENTRO	Particular	Diurno
37777	14. MORRORICO	Particular	Diurno
37802	03. SAN FRANCISCO	Particular	Diurno
37890	03. SAN FRANCISCO	Particular	Diurno
38035	13. ORIENTAL	Particular	Diurno

	HORA	RESTRICCION MOTO	Latitud	Longitud
14		Sin restricción	7.11505	-73.11625
42		No aplica	7.14169	-73.15246
51		No aplica	7.13873	-73.12737
103		No aplica	7.21816	-73.09328
194		No aplica	7.11892	-73.12353
...	
37545		Sin restricción	7.09920	-73.15155
37777		Sin restricción	7.12886	-73.09380
37802		Sin restricción	7.13873	-73.12737
37890		Sin restricción	7.13163	-73.12575
38035		Sin restricción	7.12728	-73.11631

[537 rows x 28 columns]

Valores atípicos en la variable 'MOTO':

	ORDEN	FECHA	AÑO	MES	DÍA	GRAVEDAD \
215	216	2012-01-23	2012	01. Enero	01. Lunes	Con Heridos
912	913	2012-03-17	2012	03. Marzo	06. Sabado	Con Heridos
1459	1460	2012-05-03	2012	05. Mayo	04. Jueves	Solo Daños
1750	1751	2012-05-29	2012	05. Mayo	02. Martes	Con Heridos

1816	1817	2012-06-03	2012	06. Junio	07. Domingo	Con Heridos
...
36403	36382	2022-03-25	2022	03. Marzo	05. Viernes	Con Heridos
37458	37437	2022-08-19	2022	08. Agosto	05. Viernes	Con Heridos
37794	37773	2022-11-05	2022	11. Noviembre	06. Sabado	Con Heridos
37825	37819	2022-11-19	2022	11. Noviembre	06. Sabado	Con Heridos
38137	38138	2023-02-14	2023	02. Febrero	02. Martes	Con Heridos

	PEATON	AUTOMOVIL	CAMPAERO	CAMIONETA	...	VIA 1 \
215	0	0	0	0	...	CARRERA
912	1	0	0	0	...	BOULEVAR BOLIVAR
1459	0	1	0	0	...	CARRERA
1750	0	0	0	0	...	BOULEVAR BOLIVAR
1816	0	0	0	0	...	AUTOPISTA CUCUTA
...
36403	0	0	0	0	...	CARRERA
37458	0	0	0	0	...	AUTOPISTA NORTE
37794	0	0	0	0	...	CALLE
37825	0	2	0	0	...	CARRERA
38137	0	0	0	0	...	CARRERA

	BARRIO	HORA	ENTIDAD \
215	Alfonso Lopez	06:30:00 p. m.	AGENTES DE TRANSITO DTB
912	San Francisco	09:30:00 a. m.	AGENTES DE TRANSITO DTB
1459	Gaitan	07:20:00 p. m.	AGENTES DE TRANSITO DTB
1750	San Francisco	07:00:00 a. m.	AGENTES DE TRANSITO DTB
1816	Morrórico	05:00:00 p. m.	AGENTES DE TRANSITO DTB
...
36403	Sotomayor	09:00:00 p. m.	AGENTES DE TRANSITO DTB
37458	San Rafael	01:30:00 p. m.	AGENTES DE TRANSITO DTB
37794	Provenza	07:30:00 a. m.	AGENTES DE TRANSITO DTB
37825	San Alonso	12:40:00 p. m.	AGENTES DE TRANSITO DTB
38137	Sotomayor	07:35:00 p. m.	AGENTES DE TRANSITO DTB

	nombrecomuna	Propietario de Vehículo	DIURNIO/NOCTURNO \
215	05. GARCIA ROVIRA	Particular	Nocturno
912	03. SAN FRANCISCO	Particular	Diurno
1459	04. OCCIDENTAL	Particular	Nocturno
1750	03. SAN FRANCISCO	Particular	Diurno
1816	14. MORRORICO	Particular	Diurno
...
36403	12. CABECERA DEL LLANO	Particular	Nocturno
37458	03. SAN FRANCISCO	Empresa	Diurno
37794	10. PROVENZA	Particular	Diurno
37825	13. ORIENTAL	Particular	Diurno
38137	12. CABECERA DEL LLANO	Particular	Nocturno

HORA RESTRICCIÓN MOTO Latitud Longitud

215	Sin restricción	7.11443	-73.13220
912	Sin restricción	7.13163	-73.12575
1459	Sin restricción	7.13135	-73.13283
1750	Sin restricción	7.13163	-73.12575
1816	Sin restricción	7.13154	-73.10638
...
36403	Sin restricción	7.11575	-73.11384
37458	Sin restricción	7.13894	-73.13452
37794	Sin restricción	7.08488	-73.11585
37825	Sin restricción	7.13239	-73.11680
38137	Sin restricción	7.11575	-73.11384

[103 rows x 28 columns]

Valores atípicos en la variable 'BICICLETA':

	ORDEN	FECHA	AÑO	MES	DÍA	GRAVEDAD	PEATON	\
48	49	2012-01-06	2012	01. Enero	05. Viernes	Con Heridos	0	
80	81	2012-01-10	2012	01. Enero	02. Martes	Con Heridos	0	
159	160	2012-01-17	2012	01. Enero	02. Martes	Con Heridos	0	
445	446	2012-02-13	2012	02. Febrero	01. Lunes	Con Heridos	0	
527	528	2012-02-18	2012	02. Febrero	06. Sabado	Con Heridos	0	
...	
38038	38039	2023-01-22	2023	01. Enero	07. Domingo	Con Heridos	0	
38093	38094	2023-02-03	2023	02. Febrero	05. Viernes	Con Heridos	0	
38096	38097	2023-02-04	2023	02. Febrero	06. Sabado	Con Heridos	2	
38118	38119	2023-02-09	2023	02. Febrero	04. Jueves	Con Heridos	0	
38161	38162	2023-02-21	2023	02. Febrero	02. Martes	Con Heridos	0	

	AUTOMOVIL	CAMPAERO	CAMIONETA	...	VIA 1	\
48	0	0	0	...	CALLE	
80	1	0	0	...	AVENIDA Q SECA	
159	0	0	0	...	CARRERA	
445	0	0	0	...	CALLE	
527	0	0	0	...	ANILLO VIAL	
...	
38038	1	0	0	...	TRANSVERSAL METROPOLITANA	
38093	0	0	0	...	CARRERA	
38096	0	0	0	...	CARRERA	
38118	1	0	0	...	CARRERA	
38161	0	0	0	...	AUTOPISTA FLORIDA BUCARAMANGA	

	BARRIO	HORA	ENTIDAD	\
48	La Ceiba	09:00:00 a. m.	AGENTES DE TRANSITO DTB	
80	Alarcon	03:50:00 a. m.	AGENTES DE TRANSITO DTB	
159	Puerta del Sol	06:20:00 a. m.	AGENTES DE TRANSITO DTB	
445	La Joya	06:30:00 p. m.	AGENTES DE TRANSITO DTB	
527	Cafe Madrid	05:30:00 p. m.	AGENTES DE TRANSITO DTB	
...	

38038	SIN INFORMACION	07:00:00 a. m.	AGENTES DE TRANSITO DTB
38093	La Aurora	07:40:00 a. m.	AGENTES DE TRANSITO DTB
38096	Universidad	12:20:00 p. m.	AGENTES DE TRANSITO DTB
38118	Bolarqui	04:30:00 p. m.	AGENTES DE TRANSITO DTB
38161	Puerta del Sol	05:50:00 a. m.	AGENTES DE TRANSITO DTB

	nombrecomuna	Propietario de Vehículo	DIURNIO/NOCTURNO \
48	06. LA CONCORDIA	Particular	Diurno
80	03. SAN FRANCISCO	Particular	Nocturno
159	12. CABECERA DEL LLANO	Particular	Diurno
445	05. GARCIA ROVIRA	Empresa	Nocturno
527	01. NORTE	Particular	Diurno
...
38038	SIN INFORMACION	Particular	Diurno
38093	13. ORIENTAL	Particular	Diurno
38096	03. SAN FRANCISCO	Particular	Diurno
38118	12. CABECERA DEL LLANO	Particular	Diurno
38161	12. CABECERA DEL LLANO	Particular	Nocturno

	HORA RESTRICCIÓN MOTO	Latitud	Longitud
48	Sin restricción	7.10471	-73.11565
80	No aplica	7.12608	-73.12299
159	Sin restricción	7.10395	-73.11254
445	Sin restricción	7.11028	-73.13982
527	Sin restricción	7.16257	-73.14171
...
38038	Sin restricción	7.11711	-73.12924
38093	Sin restricción	7.12728	-73.11631
38096	Sin restricción	7.13885	-73.12027
38118	Sin restricción	7.11098	-73.11422
38161	Sin restricción	7.10395	-73.11254

[657 rows x 28 columns]

Valores atípicos en la variable 'OTRO':

	ORDEN	FECHA	AÑO	MES	DÍA	GRAVEDAD \
8	9	2012-01-02	2012	01. Enero	01. Lunes	Solo Daños
81	82	2012-01-10	2012	01. Enero	02. Martes	Solo Daños
105	106	2012-01-13	2012	01. Enero	05. Viernes	Solo Daños
400	401	2012-02-08	2012	02. Febrero	03. Miercoles	Solo Daños
417	418	2012-02-10	2012	02. Febrero	05. Viernes	Solo Daños
...
38020	38021	2023-01-15	2023	01. Enero	07. Domingo	Con Heridos
38023	38024	2023-01-17	2023	01. Enero	02. Martes	Con Heridos
38100	38101	2023-02-04	2023	02. Febrero	06. Sabado	Con Heridos
38121	38122	2023-02-09	2023	02. Febrero	04. Jueves	Con Heridos
38172	38173	2023-02-23	2023	02. Febrero	04. Jueves	Con Heridos

	PEATON	AUTOMOVIL	CAMPAERO	CAMIONETA	...	VIA 1 \
8	0	1	0	0	...	CARRERA
81	0	0	0	0	...	AUTOPISTA NORTE
105	0	0	0	0	...	AUTOPISTA NORTE
400	0	1	0	0	...	CARRERA
417	0	0	0	0	...	CARRERA
...
38020	0	0	0	0	...	ANILLO VIAL
38023	0	0	0	0	...	CARRERA
38100	0	0	0	0	...	CARRERA
38121	0	0	0	0	...	CALLE
38172	0	1	0	0	...	CALLE

	BARRIO	HORA	ENTIDAD \
8	Regaderos Norte	12:00:00 p. m.	AGENTES DE TRANSITO DTB
81	SIN INFORMACION	04:45:00 p. m.	AGENTES DE TRANSITO DTB
105	Norte Bajo	12:30:00 p. m.	AGENTES DE TRANSITO DTB
400	Comuneros	01:30:00 p. m.	AGENTES DE TRANSITO DTB
417	Centro	04:30:00 p. m.	AGENTES DE TRANSITO DTB
...
38020	Rio de Oro I	06:40:00 p. m.	AGENTES DE TRANSITO DTB
38023	Norte Bajo	10:30:00 a. m.	AGENTES DE TRANSITO DTB
38100	El Prado	05:15:00 p. m.	AGENTES DE TRANSITO DTB
38121	Pan de Azucar	11:50:00 p. m.	AGENTES DE TRANSITO DTB
38172	San Alonso	06:37:00 p. m.	AGENTES DE TRANSITO DTB

	nombrecomuna	Propietario de Vehículo	DIURNIO/NOCTURNO \
8	02. NORORIENTAL	Empresa	Diurno
81	SIN INFORMACION	Particular	Diurno
105	02. NORORIENTAL	Empresa	Diurno
400	03. SAN FRANCISCO	Empresa	Diurno
417	15. CENTRO	Empresa	Diurno
...
38020	04. OCCIDENTAL	Particular	Nocturno
38023	03. SAN FRANCISCO	Particular	Diurno
38100	13. ORIENTAL	Particular	Diurno
38121	12. CABECERA DEL LLANO	Particular	Nocturno
38172	13. ORIENTAL	Empresa	Nocturno

	HORA RESTRICCION MOTO	Latitud	Longitud
8	No aplica	7.14582	-73.12332
81	No aplica	7.11711	-73.12924
105	No aplica	7.14241	-73.13523
400	No aplica	7.13873	-73.12737
417	No aplica	7.11892	-73.12353
...
38020	Sin restricción	7.14169	-73.15246
38023	Sin restricción	7.14241	-73.13523

38100	Sin restricción	7.12395	-73.11072
38121	Sin restricción	7.11599	-73.10174
38172	Sin restricción	7.13239	-73.11680

[773 rows x 28 columns]

Valores atípicos en la variable 'Latitud':

	ORDEN	FECHA	AÑO	MES	DÍA	GRAVEDAD \
15	16	2012-01-03	2012	01. Enero	02. Martes	Solo Daños
58	59	2012-01-08	2012	01. Enero	07. Domingo	Con Heridos
63	64	2012-01-08	2012	01. Enero	07. Domingo	Con Muertos
73	74	2012-01-10	2012	01. Enero	02. Martes	Con Heridos
95	96	2012-01-11	2012	01. Enero	03. Miercoles	Con Heridos
...
37990	37991	2023-01-02	2023	01. Enero	01. Lunes	Con Heridos
38078	38079	2022-12-08	2022	12. Diciembre	04. Jueves	Con Muertos
38079	38080	2022-12-08	2022	12. Diciembre	04. Jueves	Con Muertos
38095	38096	2023-02-03	2023	02. Febrero	05. Viernes	Con Heridos
38125	38126	2023-02-10	2023	02. Febrero	05. Viernes	Con Heridos

	PEATON	AUTOMOVIL	CAMPAERO	CAMIONETA	...	VIA 1 \
15	0	0	0	0	...	AUTOPISTA NORTE
58	1	0	0	0	...	CARRERA
63	0	0	0	0	...	AUTOPISTA NORTE
73	0	1	0	0	...	AUTOPISTA NORTE
95	1	1	0	0	...	TRANSVERSAL METROPOLITANA
...
37990	0	0	0	0	...	CARRERA
38078	0	0	0	0	...	AUTOPISTA NORTE
38079	0	0	0	0	...	AUTOPISTA NORTE
38095	1	0	0	0	...	CALLE
38125	0	0	0	0	...	AUTOPISTA NORTE

	BARRIO	HORA	ENTIDAD \
15	Cafe Madrid	10:10:00 p. m.	AGENTES DE TRANSITO DTB
58	Cafe Madrid	10:11:00 a. m.	AGENTES DE TRANSITO DTB
63	Divino Niño	11:15:00 a. m.	AGENTES DE TRANSITO DTB
73	Colorados	09:00:00 a. m.	AGENTES DE TRANSITO DTB
95	CAMINO DEL PARQUE	08:45:00 p. m.	AGENTES DE TRANSITO DTB
...
37990	Cafe Madrid	03:00:00 a. m.	AGENTES DE TRANSITO DTB
38078	Vijagual	12:00:00 p. m.	AGENTES DE TRANSITO DTB
38079	Vijagual	12:00:00 p. m.	AGENTES DE TRANSITO DTB
38095	Cafe Madrid	08:20:00 p. m.	AGENTES DE TRANSITO DTB
38125	Claveriano	09:45:00 a. m.	AGENTES DE TRANSITO DTB

	nombrecomuna	Propietario de Vehículo	DIURNIO/NOCTURNO \
15	01. NORTE	Empresa	Nocturno

58	01. NORTE	Empresa	Diurno
63	01. NORTE	Particular	Diurno
73	01. NORTE	Particular	Diurno
95	11. SUR	Particular	Nocturno
...
37990	01. NORTE	Particular	Nocturno
38078	CORREG. 1	Particular	Diurno
38079	CORREG. 1	Particular	Diurno
38095	01. NORTE	Particular	Nocturno
38125	01. NORTE	Particular	Diurno

	HORA RESTRICCIÓN MOTO	Latitud	Longitud
15	No aplica	7.16257	-73.14171
58	No aplica	7.16257	-73.14171
63	Sin restricción	7.16430	-73.13436
73	No aplica	7.17844	-73.13299
95	No aplica	6.98227	-73.05023
...
37990	En restricción	7.16257	-73.14171
38078	Sin información	7.20366	-73.13009
38079	Sin información	7.20366	-73.13009
38095	Sin restricción	7.16257	-73.14171
38125	Sin restricción	7.15795	-73.13121

[608 rows x 28 columns]

Valores atípicos en la variable 'Longitud':

	ORDEN	FECHA	AÑO	MES	DÍA	GRAVEDAD \
25	26	2012-01-04	2012	01. Enero	03. Miercoles	Solo Daños
35	36	2012-01-05	2012	01. Enero	04. Jueves	Solo Daños
42	43	2012-01-06	2012	01. Enero	05. Viernes	Solo Daños
95	96	2012-01-11	2012	01. Enero	03. Miercoles	Con Heridos
98	99	2012-01-12	2012	01. Enero	04. Jueves	Con Heridos

...
38080	38081	2022-12-20	2022	12. Diciembre	02. Martes	Con Muertos
38085	38086	2023-01-11	2023	01. Enero	03. Miercoles	Con Muertos
38152	38153	2023-02-18	2023	02. Febrero	06. Sabado	Con Heridos
38191	38192	2023-02-05	2023	02. Febrero	07. Domingo	Con Muertos
38193	38194	2023-02-15	2023	02. Febrero	03. Miercoles	Con Muertos

	PEATON	AUTOMOVIL	CAMPAERO	CAMIONETA	...	VIA 1 \
25	0	1	0	0	...	ANILLO VIAL
35	0	1	0	0	...	ANILLO VIAL
42	0	0	0	0	...	CALLE 45 VIA CHIMITA
95	1	1	0	0	...	TRANSVERSAL METROPOLITANA
98	0	0	0	0	...	ANILLO VIAL
...
38080	0	0	0	0	...	ANILLO VIAL

38085	0	0	0	0 ...	ANILLO VIAL
38152	0	1	0	1 ...	CALLE
38191	0	0	0	0 ...	ANILLO VIAL
38193	0	0	0	0 ...	ANILLO VIAL

	BARRIO	HORA	ENTIDAD \
25	Rio de Oro I	08:30:00 p. m.	AGENTES DE TRANSITO DTB
35	Rio de Oro I	09:00:00 a. m.	AGENTES DE TRANSITO DTB
42	Rio de Oro I	04:05:00 p. m.	AGENTES DE TRANSITO DTB
95	CAMINO DEL PARQUE	08:45:00 p. m.	AGENTES DE TRANSITO DTB
98	Rio de Oro I	08:40:00 a. m.	AGENTES DE TRANSITO DTB
...
38080	Rio de Oro I	12:55:00 p. m.	AGENTES DE TRANSITO DTB
38085	Rio de Oro I	06:20:00 p. m.	AGENTES DE TRANSITO DTB
38152	Rio de Oro I	05:00:00 p. m.	AGENTES DE TRANSITO DTB
38191	Rio de Oro I	02:15:00 p. m.	AGENTES DE TRANSITO DTB
38193	Rio de Oro I	03:40:00 p. m.	AGENTES DE TRANSITO DTB

	nombrecomuna	Propietario de Vehículo	DIURNIO/NOCTURNO \
25	04. OCCIDENTAL	Particular	Nocturno
35	04. OCCIDENTAL	Particular	Diurno
42	04. OCCIDENTAL	Particular	Diurno
95	11. SUR	Particular	Nocturno
98	04. OCCIDENTAL	Particular	Diurno
...
38080	05. GARCIA ROVIRA	Particular	Diurno
38085	05. GARCIA ROVIRA	Particular	Nocturno
38152	04. OCCIDENTAL	Particular	Diurno
38191	04. OCCIDENTAL	Particular	Diurno
38193	04. OCCIDENTAL	Particular	Diurno

	HORA RESTRICCION MOTO	Latitud	Longitud
25	No aplica	7.14169	-73.15246
35	No aplica	7.14169	-73.15246
42	No aplica	7.14169	-73.15246
95	No aplica	6.98227	-73.05023
98	Sin restricción	7.14169	-73.15246
...
38080	Sin información	7.14169	-73.15246
38085	Sin información	7.14169	-73.15246
38152	Sin restricción	7.14169	-73.15246
38191	Sin información	7.14169	-73.15246
38193	Sin información	7.14169	-73.15246

[1893 rows x 28 columns]

9.4.2 2.4.2. Valores atípicos en Variables Categoricals

Este código verificará si cada valor único es una cadena (str) y luego buscará si hay dígitos numéricos en la cadena. Si se encuentran dígitos en la cadena, se considerará una anomalía sintáctica o tipográfica. Esto debería evitar el error que mencionaste. Por favor, inténtalo nuevamente con este código.

```
[14]: categorical_variables = ['FECHA', 'MES', 'DÍA', 'GRAVEDAD', 'VIA 1', 'BARRIO',  
    ↪ 'HORA', 'ENTIDAD', 'nombrecomuna', 'Propietario de Vehículo', 'DIURNIO/  
    ↪ NOCTURNO', 'HORA RESTRICCION MOTO']  
  
# Definir una función para identificar anomalías sintácticas o tipográficas  
def identify_typo_anomalies(column):  
    unique_values = data[column].unique()  
    typo_anomalies = []  
  
    for value in unique_values:  
        if isinstance(value, str) and any(char.isdigit() for char in value): #  
            ↪ Verificar si es una cadena y contiene dígitos  
            typo_anomalies.append(value)  
  
    return typo_anomalies  
  
# Identificar anomalías en cada variable categórica  
for column in categorical_variables:  
    anomalies = identify_typo_anomalies(column)  
    if anomalies:  
        print(f"Anomalías en la variable '{column}':")  
        print(anomalies)  
        print()
```

Anomalías en la variable 'MES':

```
['01. Enero', '02. Febrero', '03. Marzo', '04. Abril', '05. Mayo', '06. Junio',  
'07. Julio', '08. Agosto', '09. Septiembre', '10. Octubre', '11. Noviembre',  
'12. Diciembre']
```

Anomalías en la variable 'DÍA':

```
['07. Domingo', '01. Lunes', '02. Martes', '03. Miercoles', '04. Jueves', '05.  
Viernes', '06. Sabado']
```

Anomalías en la variable 'VIA 1':

```
['CALLE 45 VIA CHIMITA', 'DIAGONAL 15', 'AVENIDA 89', 'TRANSVERSAL 28',  
'TRANSVERSAL 93', 'TRANSVERSAL 24', 'AVENIDA 15 N', 'DIAGONAL 32', 'TRANSVERSAL  
92', 'AVENIDA 42', 'DIAGONAL 105', 'TRANSVERSAL 72', 'AVENIDA 61', 'TRANSVERSAL  
112', 'AVENIDA 88', 'AVENIDA 87', 'DIAGONAL 14', 'CL 45 VIA CHIMITA', 'DIAGONAL  
31', 'DIAGONAL 13', 'TRANSVERSAL 93', 'TRANSVERSA 89', 'CALLE 45 CHIMITA',  
'TRANSVERSAL 65', 'DIAGONAL 20', 'DIAGONAL 11', 'DIAGONAL 64', 'CARRERA 21',  
'CARRERA 9', 'CARREERA 27', 'CALLE 3', 'CARRERA 12', 'CALLE 11', 'CARRERA 33',
```

'CALLE 31', 'CALLE 93', 'CARRERA 12 N', 'CARRERA 17', 'CARRERA 15', 'CALLE 41',
'CALLE 105', 'CARRERA 55', 'CALLE 83', 'CARRERA 19']

Anomalías en la variable 'BARRIO':

['13 de junio', '10 DE MAYO SANTA BARBARA', '23 de junio', '12 de Octubre', '20 de julio']

Anomalías en la variable 'HORA':

['12:15:00 p.\xa0m.', '02:00:00 p.\xa0m.', '12:00:00 p.\xa0m.', '06:30:00 p.\xa0m.', '12:30:00 a.\xa0m.', '09:10:00 p.\xa0m.', '01:50:00 p.\xa0m.', '07:20:00 p.\xa0m.', '04:35:00 p.\xa0m.', '08:20:00 a.\xa0m.', '01:45:00 p.\xa0m.', '05:10:00 p.\xa0m.', '06:45:00 a.\xa0m.', '10:10:00 p.\xa0m.', '06:10:00 p.\xa0m.', '06:00:00 p.\xa0m.', '04:15:00 p.\xa0m.', '07:00:00 p.\xa0m.', '11:22:00 a.\xa0m.', '08:40:00 p.\xa0m.', '08:30:00 p.\xa0m.', '03:00:00 p.\xa0m.', '06:40:00 p.\xa0m.', '01:00:00 p.\xa0m.', '05:45:00 p.\xa0m.', '07:50:00 p.\xa0m.', '09:15:00 a.\xa0m.', '09:40:00 a.\xa0m.', '09:30:00 a.\xa0m.', '09:00:00 a.\xa0m.', '10:40:00 a.\xa0m.', '07:15:00 a.\xa0m.', '10:20:00 a.\xa0m.', '10:15:00 a.\xa0m.', '04:05:00 p.\xa0m.', '03:10:00 p.\xa0m.', '03:20:00 p.\xa0m.', '11:45:00 a.\xa0m.', '05:40:00 a.\xa0m.', '07:30:00 p.\xa0m.', '05:00:00 p.\xa0m.', '06:55:00 p.\xa0m.', '09:10:00 a.\xa0m.', '10:30:00 p.\xa0m.', '02:30:00 p.\xa0m.', '10:11:00 a.\xa0m.', '04:30:00 p.\xa0m.', '01:00:00 a.\xa0m.', '10:00:00 a.\xa0m.', '10:45:00 a.\xa0m.', '11:15:00 a.\xa0m.', '04:45:00 a.\xa0m.', '02:40:00 p.\xa0m.', '03:50:00 a.\xa0m.', '02:05:00 p.\xa0m.', '08:00:00 p.\xa0m.', '07:40:00 a.\xa0m.', '10:30:00 a.\xa0m.', '12:17:00 a.\xa0m.', '02:10:00 p.\xa0m.', '04:45:00 p.\xa0m.', '06:15:00 p.\xa0m.', '07:00:00 a.\xa0m.', '11:20:00 a.\xa0m.', '03:40:00 p.\xa0m.', '07:15:00 p.\xa0m.', '03:01:00 p.\xa0m.', '07:40:00 p.\xa0m.', '08:45:00 p.\xa0m.', '08:40:00 a.\xa0m.', '11:30:00 a.\xa0m.', '06:45:00 p.\xa0m.', '08:10:00 a.\xa0m.', '12:30:00 p.\xa0m.', '05:20:00 a.\xa0m.', '06:55:00 a.\xa0m.', '03:45:00 p.\xa0m.', '06:20:00 p.\xa0m.', '05:30:00 p.\xa0m.', '08:10:00 p.\xa0m.', '01:50:00 a.\xa0m.', '04:27:00 p.\xa0m.', '03:40:00 a.\xa0m.', '06:10:00 a.\xa0m.', '09:34:00 a.\xa0m.', '02:00:00 a.\xa0m.', '01:30:00 p.\xa0m.', '04:20:00 p.\xa0m.', '10:40:00 p.\xa0m.', '07:26:00 p.\xa0m.', '05:50:00 p.\xa0m.', '05:10:00 a.\xa0m.', '01:15:00 p.\xa0m.', '04:55:00 p.\xa0m.', '12:00:00 a.\xa0m.', '09:50:00 a.\xa0m.', '10:50:00 a.\xa0m.', '03:50:00 p.\xa0m.', '06:50:00 a.\xa0m.', '09:55:00 a.\xa0m.', '04:25:00 p.\xa0m.', '06:25:00 p.\xa0m.', '06:20:00 a.\xa0m.', '10:05:00 a.\xa0m.', '04:40:00 p.\xa0m.', '06:30:00 a.\xa0m.', '11:40:00 a.\xa0m.', '12:36:00 a.\xa0m.', '01:45:00 a.\xa0m.', '11:50:00 p.\xa0m.', '05:40:00 p.\xa0m.', '11:00:00 a.\xa0m.', '03:30:00 p.\xa0m.', '05:20:00 p.\xa0m.', '06:50:00 p.\xa0m.', '04:00:00 p.\xa0m.', '08:50:00 p.\xa0m.', '01:33:00 p.\xa0m.', '05:50:00 a.\xa0m.', '10:00:00 p.\xa0m.', '07:43:00 p.\xa0m.', '12:35:00 a.\xa0m.', '11:15:00 p.\xa0m.', '12:35:00 p.\xa0m.', '02:50:00 p.\xa0m.', '07:35:00 p.\xa0m.', '08:00:00 a.\xa0m.', '08:45:00 a.\xa0m.', '10:25:00 p.\xa0m.', '01:20:00 p.\xa0m.', '09:20:00 a.\xa0m.', '03:25:00 p.\xa0m.', '05:45:00 a.\xa0m.', '07:30:00 a.\xa0m.', '04:50:00 p.\xa0m.', '12:05:00 p.\xa0m.', '10:10:00 a.\xa0m.', '07:25:00 a.\xa0m.', '09:14:00 a.\xa0m.', '11:10:00 a.\xa0m.',

'09:30:00 p.\xa0m.', '09:45:00 a.\xa0m.', '09:25:00 a.\xa0m.', '02:52:00 p.\xa0m.', '11:30:00 p.\xa0m.', '12:40:00 p.\xa0m.', '07:10:00 p.\xa0m.', '03:15:00 p.\xa0m.', '11:00:00 p.\xa0m.', '04:10:00 a.\xa0m.', '09:52:00 p.\xa0m.', '08:15:00 a.\xa0m.', '04:00:00 a.\xa0m.', '02:50:00 a.\xa0m.', '08:30:00 a.\xa0m.', '06:00:00 a.\xa0m.', '12:10:00 p.\xa0m.', '11:05:00 a.\xa0m.', '11:50:00 a.\xa0m.', '01:23:00 p.\xa0m.', '09:00:00 p.\xa0m.', '08:35:00 p.\xa0m.', '12:50:00 p.\xa0m.', '06:05:00 a.\xa0m.', '12:13:00 a.\xa0m.', '06:15:00 a.\xa0m.', '04:10:00 p.\xa0m.', '04:16:00 p.\xa0m.', '06:28:00 a.\xa0m.', '07:05:00 p.\xa0m.', '09:35:00 a.\xa0m.', '01:10:00 a.\xa0m.', '01:40:00 p.\xa0m.', '09:20:00 p.\xa0m.', '11:55:00 p.\xa0m.', '07:55:00 a.\xa0m.', '08:50:00 a.\xa0m.', '06:40:00 a.\xa0m.', '05:55:00 p.\xa0m.', '07:01:00 p.\xa0m.', '08:05:00 p.\xa0m.', '09:15:00 p.\xa0m.', '12:45:00 p.\xa0m.', '12:25:00 p.\xa0m.', '11:49:00 a.\xa0m.', '07:10:00 a.\xa0m.', '06:08:00 p.\xa0m.', '02:10:00 a.\xa0m.', '11:20:00 p.\xa0m.', '07:20:00 a.\xa0m.', '08:15:00 p.\xa0m.', '10:50:00 p.\xa0m.', '09:45:00 p.\xa0m.', '12:49:00 p.\xa0m.', '03:45:00 a.\xa0m.', '05:15:00 p.\xa0m.', '08:26:00 a.\xa0m.', '07:50:00 a.\xa0m.', '12:20:00 p.\xa0m.', '03:24:00 p.\xa0m.', '02:35:00 a.\xa0m.', '03:35:00 p.\xa0m.', '04:55:00 a.\xa0m.', '03:05:00 p.\xa0m.', '12:50:00 a.\xa0m.', '06:35:00 a.\xa0m.', '02:20:00 p.\xa0m.', '12:20:00 a.\xa0m.', '10:15:00 p.\xa0m.', '10:35:00 a.\xa0m.', '07:41:00 a.\xa0m.', '01:05:00 p.\xa0m.', '05:00:00 a.\xa0m.', '09:48:00 a.\xa0m.', '08:05:00 a.\xa0m.', '12:02:00 a.\xa0m.', '05:05:00 p.\xa0m.', '06:05:00 p.\xa0m.', '12:10:00 a.\xa0m.', '09:55:00 p.\xa0m.', '10:29:00 a.\xa0m.', '02:20:00 a.\xa0m.', '01:20:00 a.\xa0m.', '08:20:00 p.\xa0m.', '03:18:00 p.\xa0m.', '07:45:00 a.\xa0m.', '08:35:00 a.\xa0m.', '09:50:00 p.\xa0m.', '11:25:00 p.\xa0m.', '05:35:00 p.\xa0m.', '01:10:00 p.\xa0m.', '03:55:00 p.\xa0m.', '05:14:00 p.\xa0m.', '05:25:00 p.\xa0m.', '04:30:00 a.\xa0m.', '07:29:00 p.\xa0m.', '10:45:00 p.\xa0m.', '01:25:00 a.\xa0m.', '08:25:00 p.\xa0m.', '12:18:00 p.\xa0m.', '10:57:00 p.\xa0m.', '01:40:00 a.\xa0m.', '02:15:00 p.\xa0m.', '10:07:00 a.\xa0m.', '07:05:00 a.\xa0m.', '06:35:00 p.\xa0m.', '06:48:00 p.\xa0m.', '01:25:00 p.\xa0m.', '02:15:00 a.\xa0m.', '06:17:00 a.\xa0m.', '01:35:00 p.\xa0m.', '03:00:00 a.\xa0m.', '08:58:00 a.\xa0m.', '07:31:00 p.\xa0m.', '01:28:00 p.\xa0m.', '03:20:00 a.\xa0m.', '11:55:00 a.\xa0m.', '03:15:00 a.\xa0m.', '05:15:00 a.\xa0m.', '08:55:00 p.\xa0m.', '11:53:00 a.\xa0m.', '08:25:00 a.\xa0m.', '06:54:00 a.\xa0m.', '12:40:00 a.\xa0m.', '09:35:00 p.\xa0m.', '04:37:00 p.\xa0m.', '05:30:00 a.\xa0m.', '10:35:00 p.\xa0m.', '12:28:00 a.\xa0m.', '12:15:00 a.\xa0m.', '02:30:00 a.\xa0m.', '07:58:00 a.\xa0m.', '10:25:00 a.\xa0m.', '11:29:00 a.\xa0m.', '04:15:00 a.\xa0m.', '09:22:00 p.\xa0m.', '04:50:00 a.\xa0m.', '07:12:00 a.\xa0m.', '03:30:00 a.\xa0m.', '12:09:00 a.\xa0m.', '04:35:00 a.\xa0m.', '07:09:00 p.\xa0m.', '01:14:00 a.\xa0m.', '08:42:00 a.\xa0m.', '11:25:00 a.\xa0m.', '01:15:00 a.\xa0m.', '08:17:00 a.\xa0m.', '02:55:00 p.\xa0m.', '04:20:00 a.\xa0m.', '07:55:00 p.\xa0m.', '11:40:00 p.\xa0m.', '10:55:00 a.\xa0m.', '10:34:00 a.\xa0m.', '07:17:00 p.\xa0m.', '03:05:00 a.\xa0m.', '07:45:00 p.\xa0m.', '06:25:00 a.\xa0m.', '09:05:00 a.\xa0m.', '06:42:00 p.\xa0m.', '05:27:00 a.\xa0m.', '01:37:00 p.\xa0m.', '02:27:00 p.\xa0m.', '05:44:00 a.\xa0m.', '01:58:00 a.\xa0m.', '10:20:00 p.\xa0m.', '02:02:00 p.\xa0m.', '01:07:00 p.\xa0m.', '01:55:00 p.\xa0m.',

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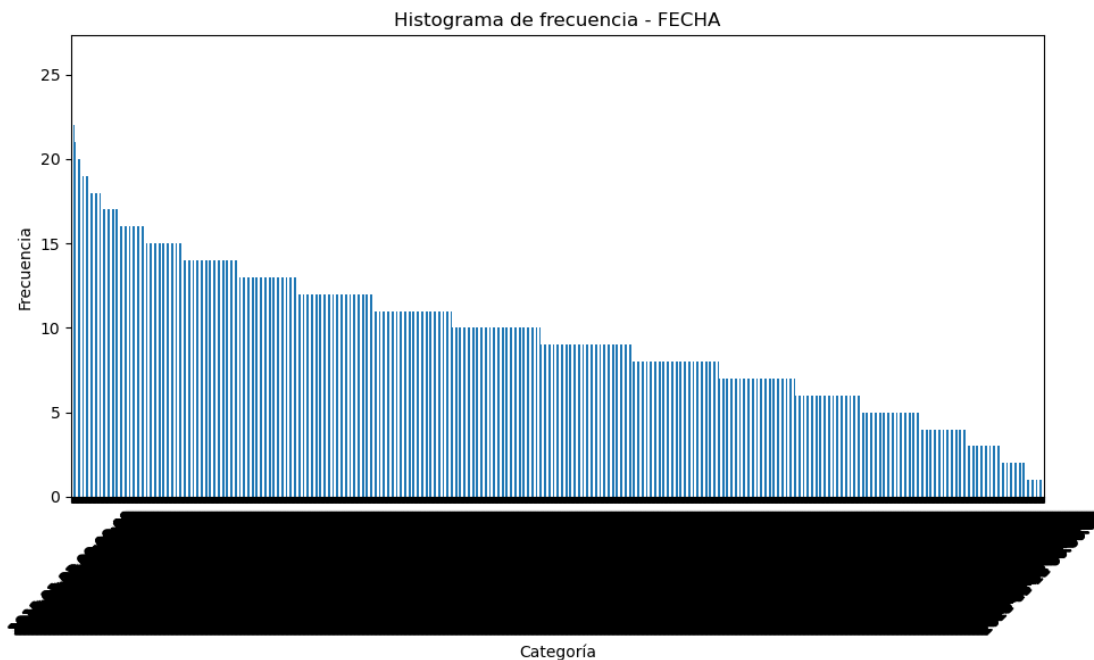
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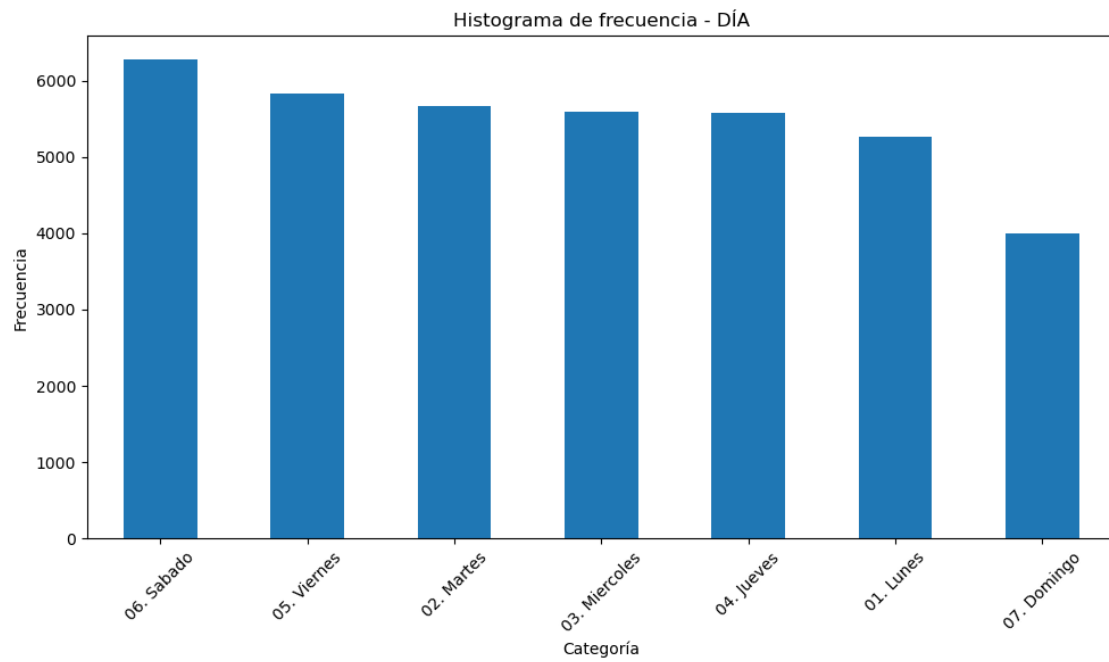
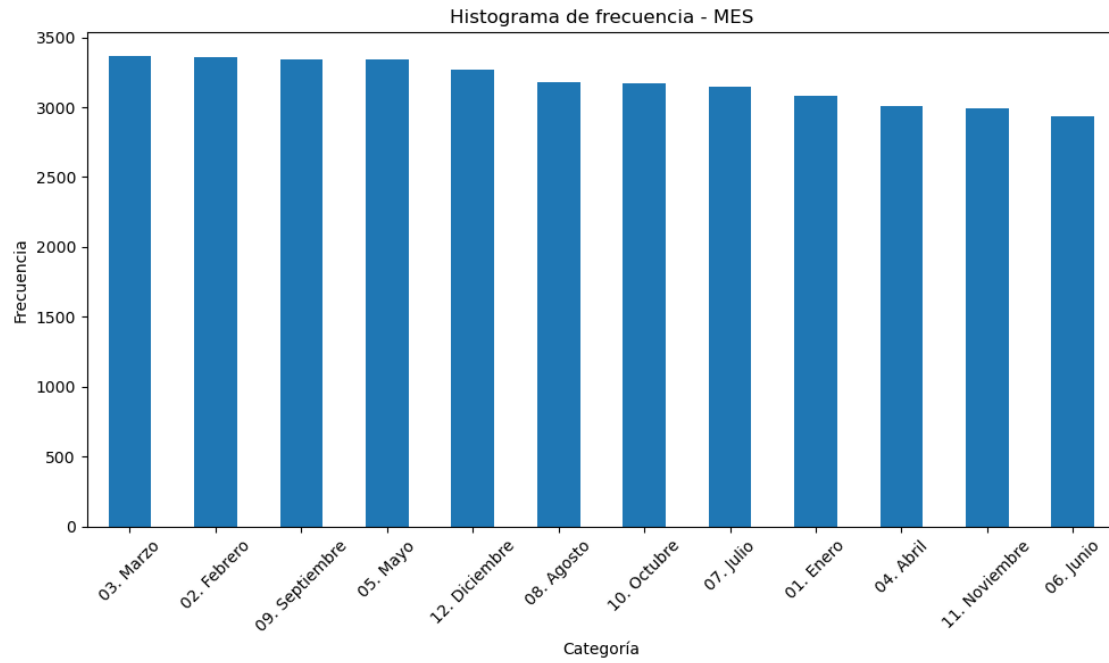
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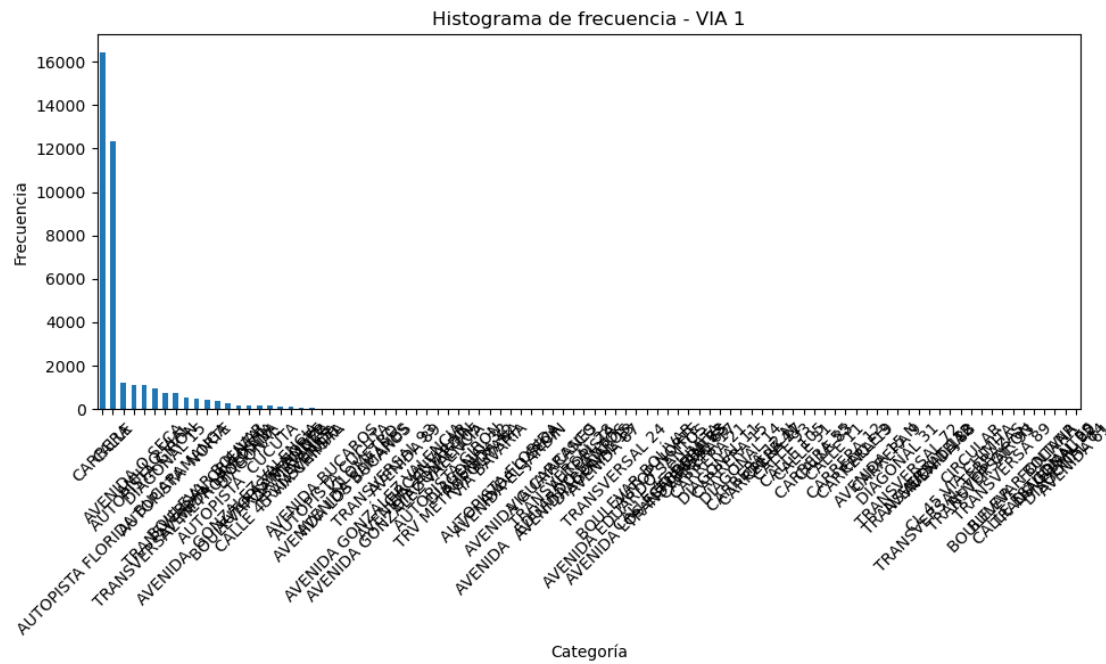
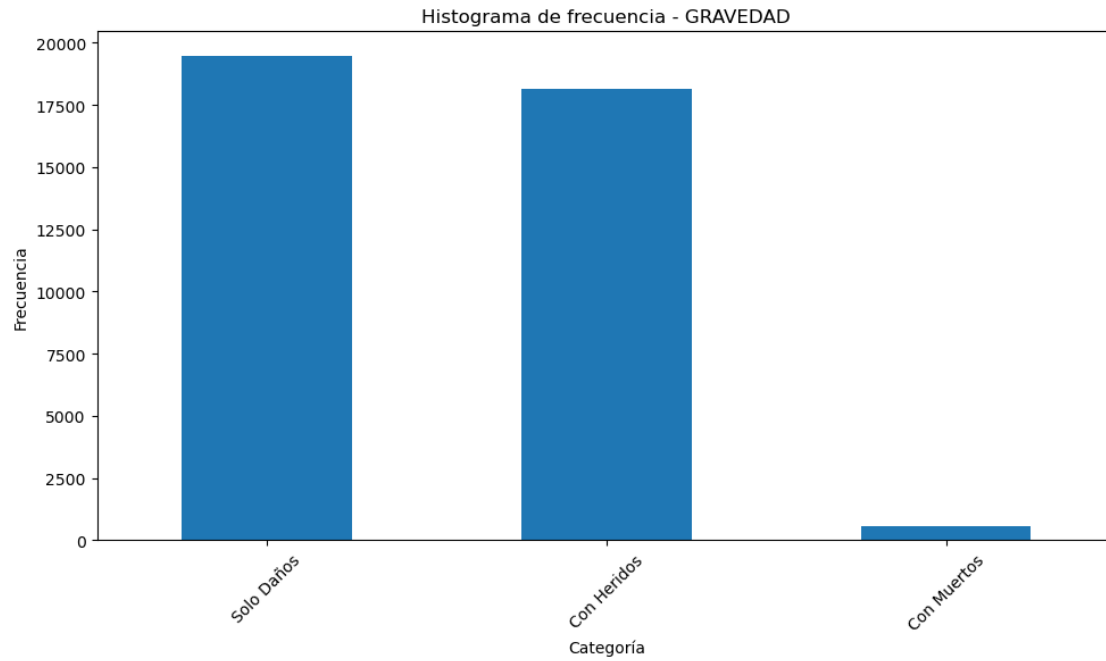
Este código generará un histograma de frecuencia de categorías para cada variable categórica en la lista `categorical_variables`. Cada histograma mostrará la frecuencia de cada categoría en el eje y, y el nombre de la categoría en el eje x. Esto te permitirá identificar si hay categorías que tienen frecuencias inusuales o atípicas en comparación con las demás.

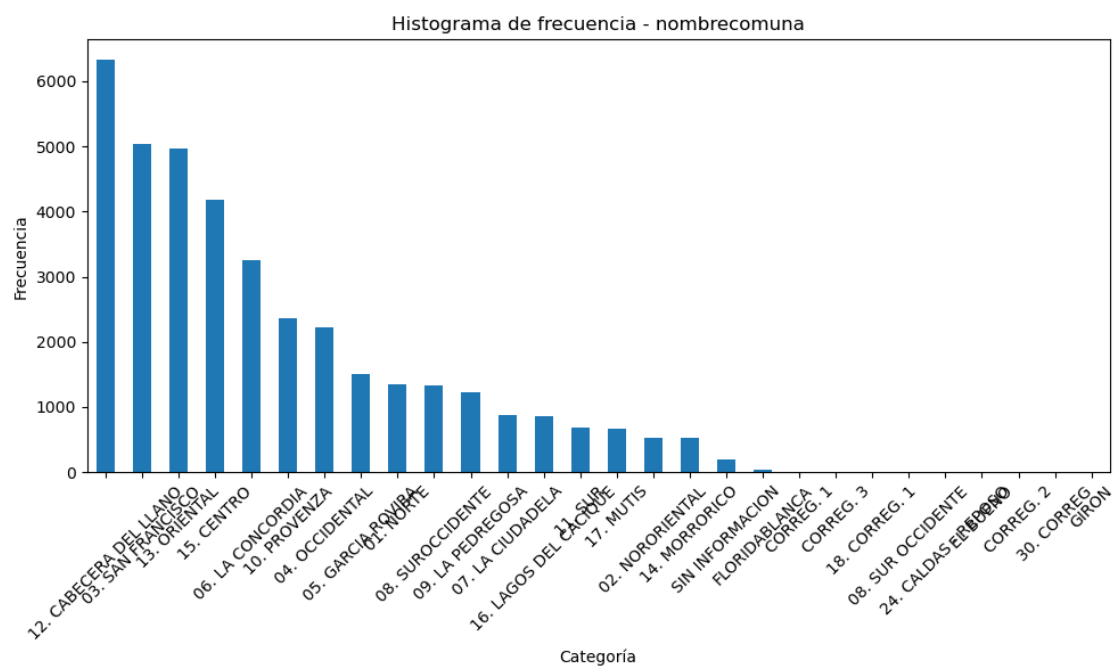
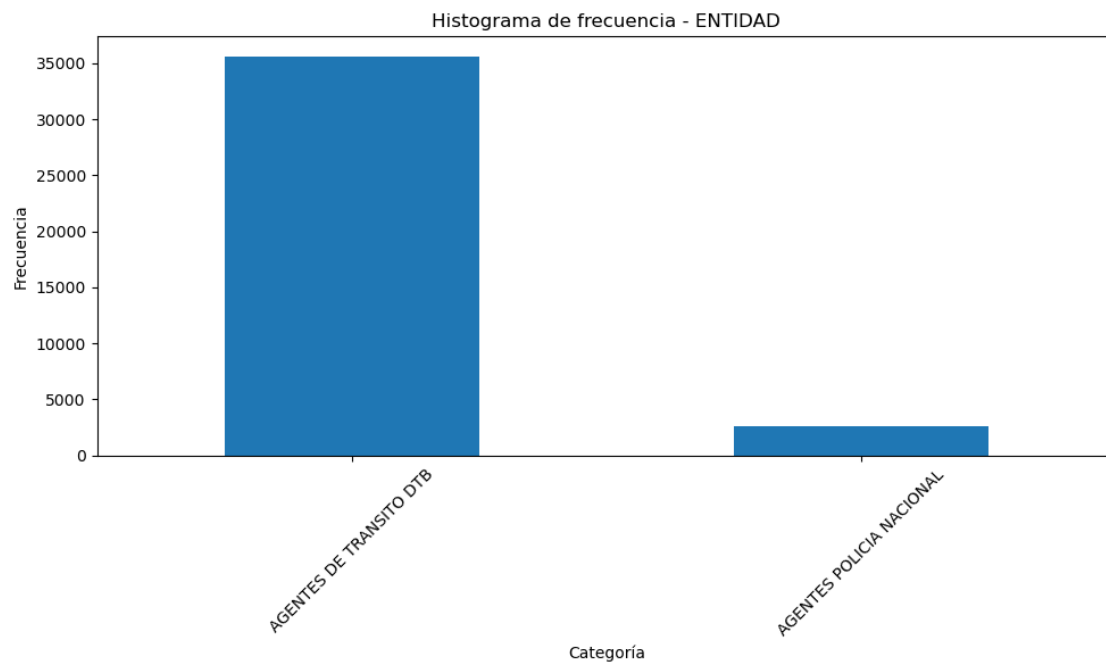
```
[15]: categorical_variables = ['FECHA', 'MES', 'DÍA', 'GRAVEDAD', 'VIA 1', 'BARRIO', 'HORA', 'ENTIDAD', 'nombrecomuna', 'Propietario de Vehículo', 'DIURNIO/NOCTURNO', 'HORA RESTRICCIÓN MOTO']

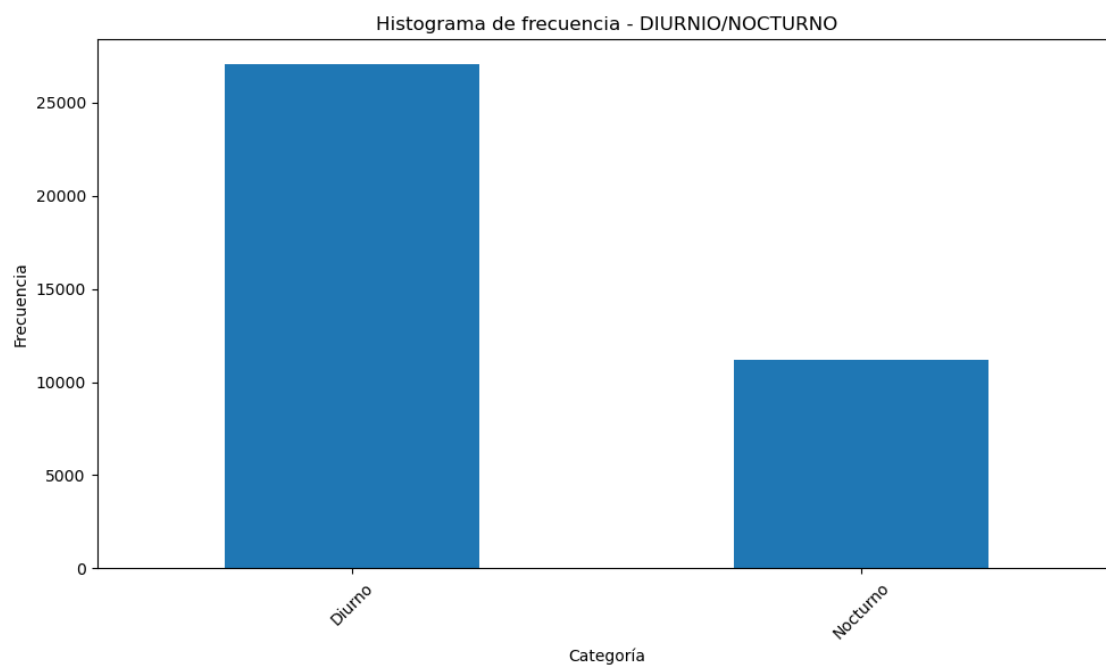
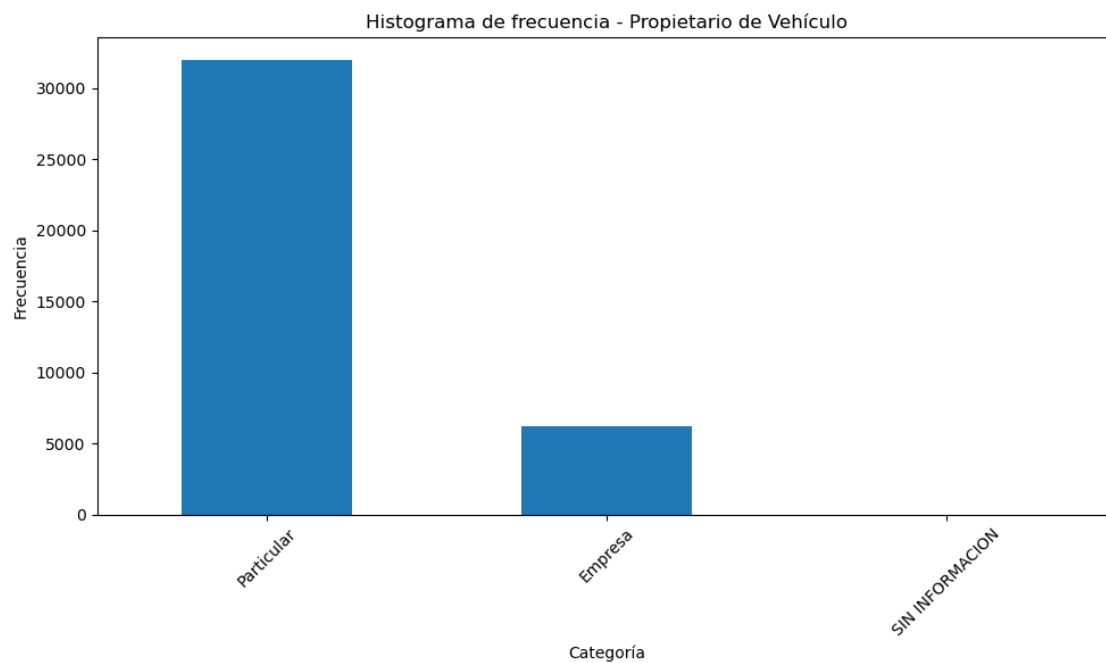
# Crear histogramas de frecuencia de categorías para cada variable categórica
for column in categorical_variables:
    plt.figure(figsize=(10, 6))
    data[column].value_counts().plot(kind='bar')
    plt.title(f'Histograma de frecuencia - {column}')
    plt.xlabel('Categoría')
    plt.ylabel('Frecuencia')
    plt.xticks(rotation=45)
    plt.tight_layout()
    plt.show()
```

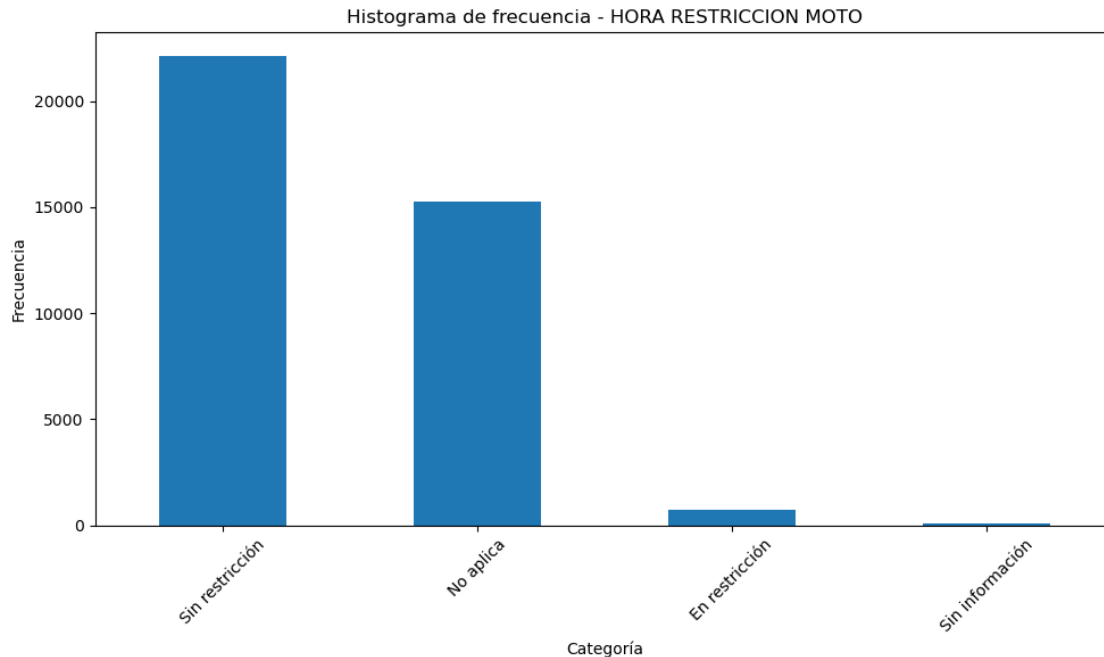












10 Metodología

Mis disculpas por la omisión. Además del uso de KMeans para el agrupamiento, también se hizo uso del algoritmo CatBoost para la creación y entrenamiento de modelos de aprendizaje automático. La metodología se amplía de la siguiente manera:

1. **Carga de datos:** Al igual que en el caso del clustering, se cargaron los datos desde un archivo CSV utilizando la biblioteca pandas. Estos datos contenían información sobre accidentes en diferentes barrios, incluyendo varias características relevantes.
2. **Preprocesamiento de datos:** Se realizó un procesamiento previo similar al anterior, donde se seleccionaron las características apropiadas para el análisis y el modelado. Además, se llevaron a cabo pasos de preprocesamiento como la transformación de características categóricas en numéricas (si es necesario) y la división del conjunto de datos en características (X) y la variable objetivo (y).
3. **Creación de modelo CatBoost:** Se utilizó el algoritmo CatBoostClassifier para crear un modelo de clasificación. Se configuraron hiperparámetros como el número de iteraciones, las características categóricas y la semilla aleatoria.
4. **Entrenamiento del modelo CatBoost:** El modelo se entrenó utilizando datos de entrenamiento. Se utilizó el conjunto de entrenamiento para ajustar el modelo a los datos y se evaluó su rendimiento en el conjunto de prueba utilizando el método de evaluación proporcionado (en este caso, se usó el conjunto de prueba y los datos de validación temprana).
5. **Generación de predicciones:** Una vez entrenado el modelo, se realizaron predicciones en un conjunto de prueba separado. Las predicciones se obtuvieron utilizando el método `predict()` del modelo CatBoost.

6. **Evaluación del modelo:** Se evaluó el rendimiento del modelo utilizando métricas como la precisión, el recall y el F1-score. Estas métricas proporcionaron una comprensión detallada de cómo el modelo estaba funcionando en cada clase.
7. **Matriz de Confusión:** Se generó una matriz de confusión para visualizar las predicciones del modelo en comparación con los valores reales. Esta matriz ayudó a comprender cómo se clasificaban las instancias en cada clase y a identificar posibles áreas de mejora.
8. **Cross-Validation:** Además de la evaluación en un conjunto de prueba único, se aplicó la técnica de cross-validation para evaluar el rendimiento del modelo en diferentes particiones de los datos. Esto proporcionó una visión más robusta de cómo el modelo generalizaba en diferentes situaciones.
9. **Determinación del número óptimo de clústeres:** Se utilizó el método del codo para determinar el número óptimo de clústeres para el algoritmo KMeans. Se iteró a través de un rango de posibles valores de k y se calculó la inercia (suma de las distancias cuadradas entre las muestras y los centroides) para cada valor. El punto en el que la inercia deja de disminuir de manera significativa se considera el número óptimo de clústeres.
10. **Agrupamiento con KMeans:** Utilizando el número óptimo de clústeres determinado en el paso anterior, se aplicó el algoritmo KMeans para agrupar los datos en los clústeres correspondientes.
11. **Visualización del resultado:** Se generó un diagrama de dispersión para visualizar los resultados del agrupamiento. En este diagrama, cada punto representa una muestra en el espacio bidimensional de las características estandarizadas, y se coloreó de acuerdo al clúster al que pertenece. También se mostraron los centroides de cada clúster en el diagrama.
12. **Generación de un mapa interactivo:** Utilizando la biblioteca folium, se creó un mapa interactivo centrado en una ubicación específica. Se agregaron marcadores para cada muestra en el conjunto de datos, donde la posición de cada marcador corresponde a las coordenadas de latitud y longitud de la muestra. Los marcadores se colorearon de acuerdo al clúster al que pertenecen.
13. **Visualización del número de muestras por clúster:** Se mostró el número de muestras que pertenecen a cada clúster, lo que proporciona información sobre cómo se distribuyen los datos en los diferentes grupos.
14. **Representación grafica de interactiva de los clúster en el Mapa:** Se mostró el número de muestras que pertenecen a cada clúster, lo que proporciona información sobre cómo se distribuyen los datos en los diferentes grupos.

11 3. Análisis

11.1 3.1. Distribución de la Variable Objetivo 'GRAVEDAD'

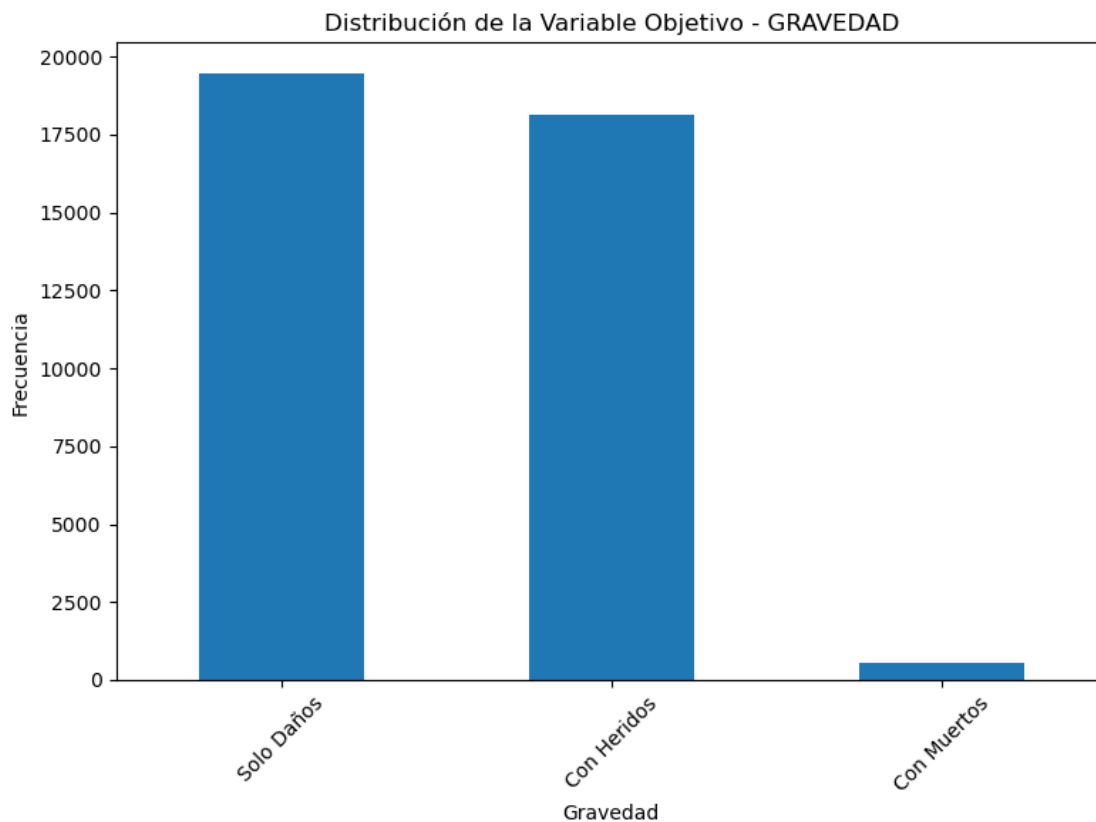
Se Utiliza gráficos de barras o gráficos circulares para visualizar la distribución de las categorías de la variable objetivo 'GRAVEDAD', para comprender cómo se distribuyen los diferentes niveles de gravedad en los accidentes.

Este código generará dos visualizaciones: un gráfico de barras que muestra la frecuencia de cada nivel de gravedad y un gráfico circular (pastel) que muestra la proporción de cada nivel de gravedad

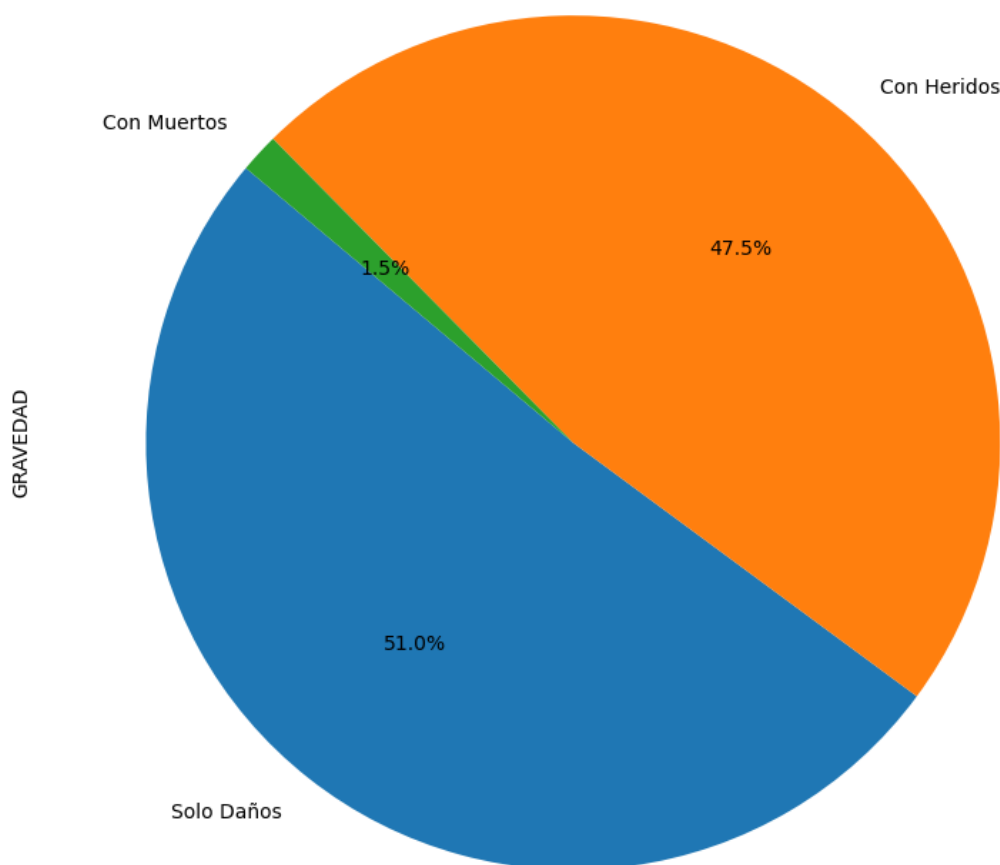
en forma de porcentaje.

```
[16]: # Visualización con gráfico de barras
plt.figure(figsize=(8, 6))
data['GRAVEDAD'].value_counts().plot(kind='bar')
plt.title('Distribución de la Variable Objetivo - GRAVEDAD')
plt.xlabel('Gravedad')
plt.ylabel('Frecuencia')
plt.xticks(rotation=45)
plt.tight_layout()
plt.show()

# Visualización con gráfico circular (pastel)
plt.figure(figsize=(8, 8))
data['GRAVEDAD'].value_counts().plot(kind='pie', autopct='%1.1f%%',
    ↪startangle=140)
plt.title('Distribución de la Variable Objetivo - GRAVEDAD')
plt.tight_layout()
plt.show()
```



Distribución de la Variable Objetivo - GRAVEDAD



considerando la distribución de la variable objetivo ‘GRAVEDAD’, podemos hacer las siguientes observaciones preliminares:

‘Con Muertos’: Esta categoría representa el 1.5% de los accidentes. Aunque es una proporción relativamente baja, los accidentes con víctimas mortales son eventos graves que deben investigarse en profundidad. A pesar de su baja frecuencia, estos accidentes pueden tener un impacto significativo en la seguridad vial y podrían ser objeto de análisis más detallados para identificar patrones y factores contribuyentes.

‘Con Heridos’: Esta categoría es la más frecuente, representando el 47.5% de los accidentes. Los accidentes con heridos también son preocupantes, ya que pueden causar daño físico y emocional a las personas involucradas. Dada su alta frecuencia, es importante investigar los factores que contribuyen a estos accidentes y desarrollar medidas de seguridad para reducir su ocurrencia.

‘Solo Daños’: La mayoría de los accidentes (51%) caen en esta categoría, donde solo se reportan

daños materiales. Aunque estos accidentes pueden no causar lesiones personales, aún representan costos económicos y pueden ser indicativos de problemas en el cumplimiento de las normas de tránsito o en la infraestructura vial.

11.2 3.2 Exploración de Variables Numéricas

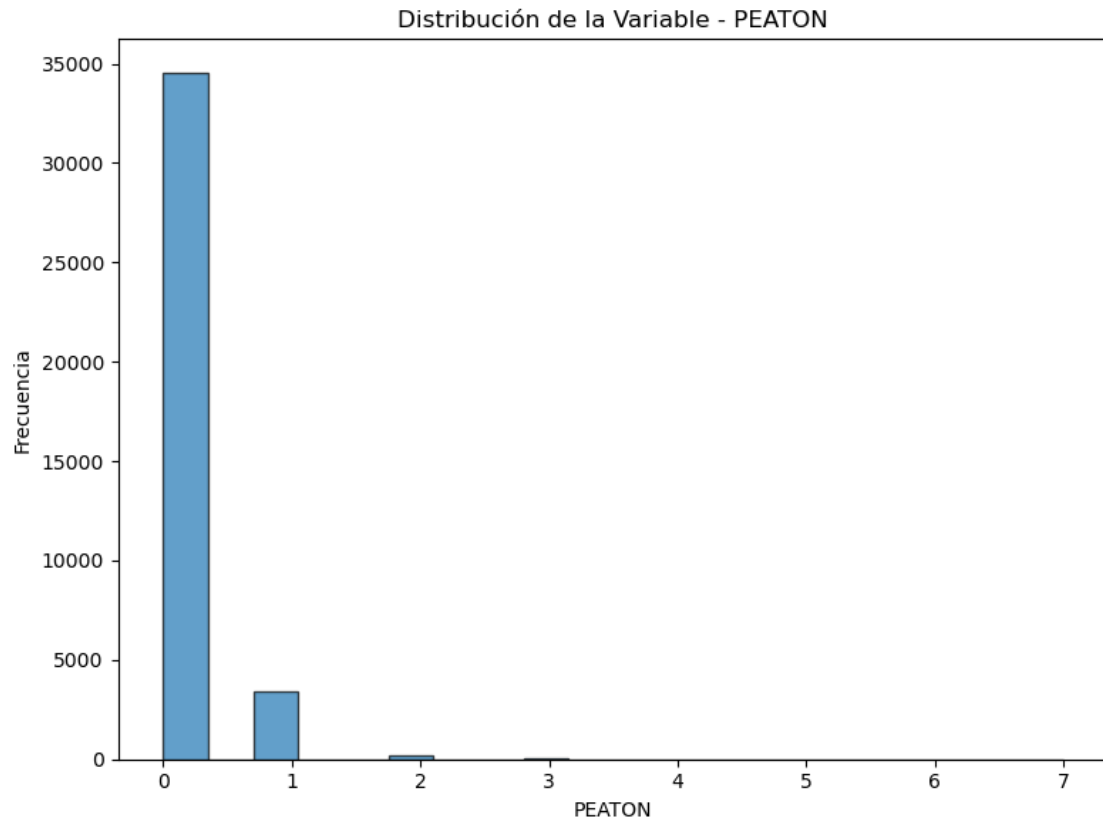
Este código generará histogramas de frecuencia para cada variable numérica en la lista `numeric_variables`. Luego, calculará estadísticas descriptivas como la media, mediana, desviación estándar, valores mínimo y máximo, y percentiles para cada una de estas variables.

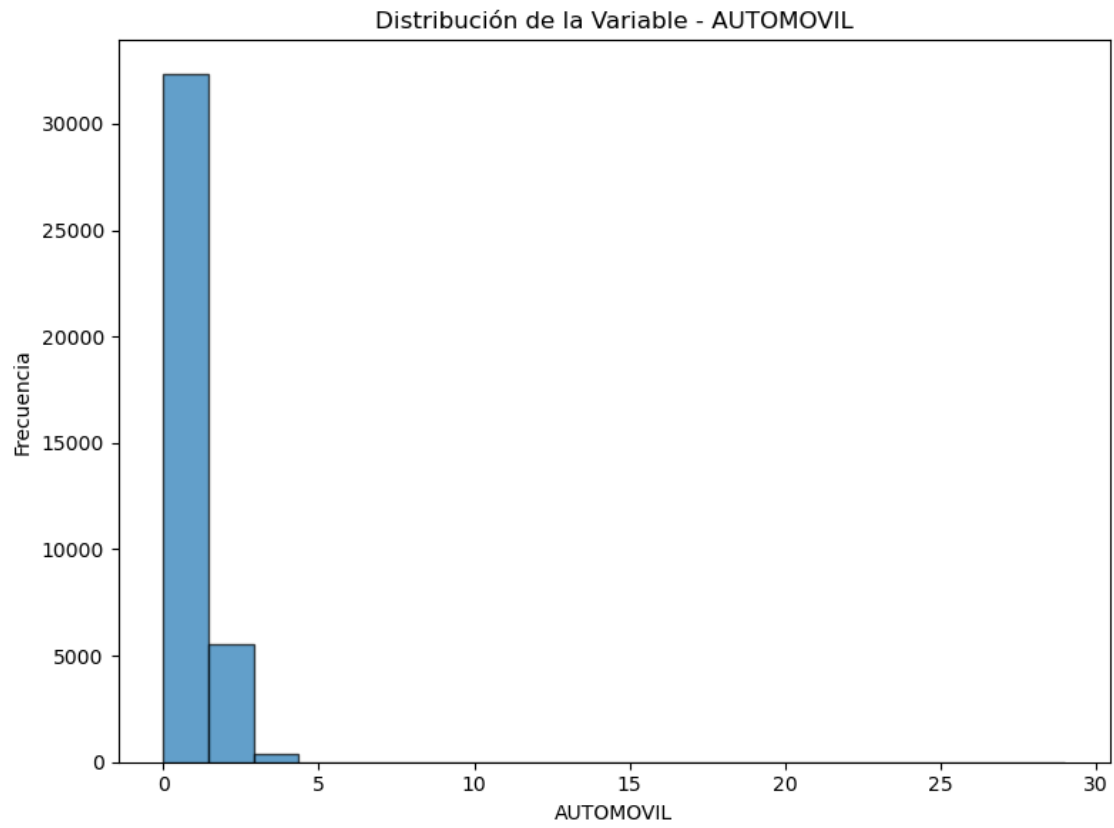
Estos histogramas te permitirán visualizar cómo se distribuyen los valores en cada variable numérica. Las estadísticas descriptivas te darán una idea de la magnitud y dispersión de los valores, lo que te ayudará a comprender mejor la naturaleza de tus datos numéricos.

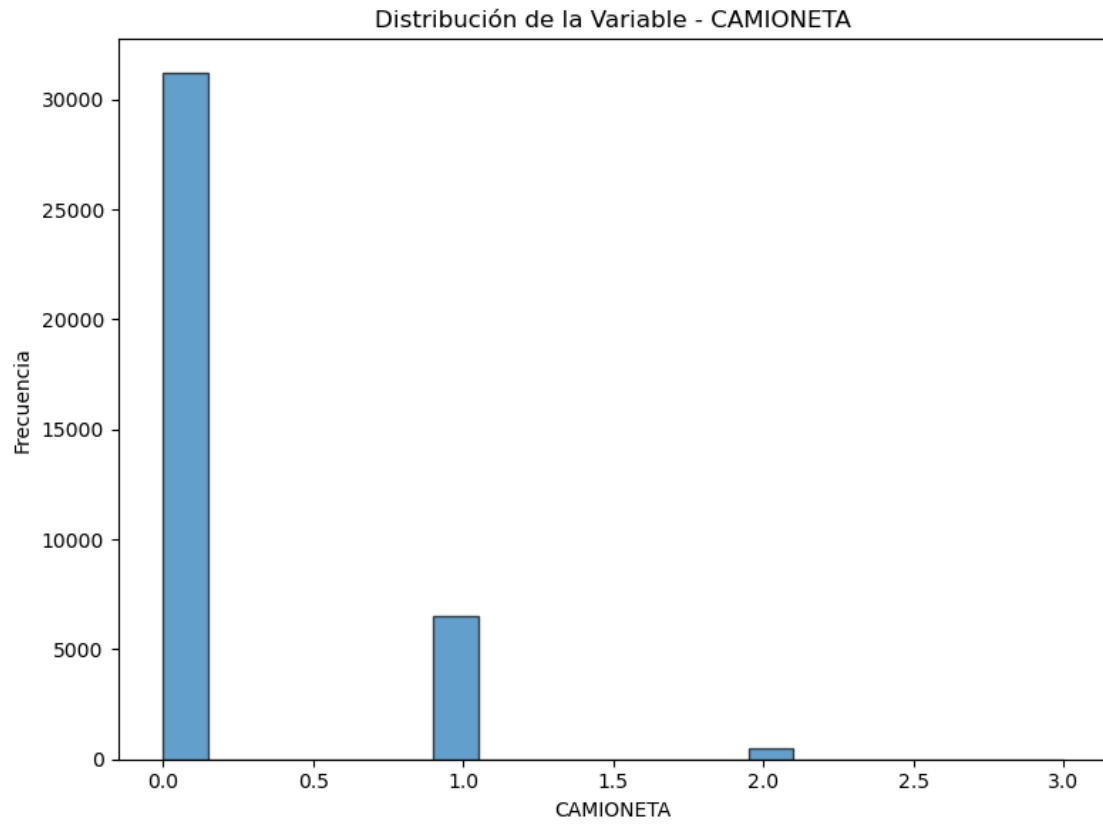
```
[17]: numeric_variables = ['PEATON', 'AUTOMOVIL', 'CAMIONETA', 'MICRO', 'BUSETA', 'BUS', 'CAMION', 'VOLQUETA', 'MOTO', 'BICICLETA']

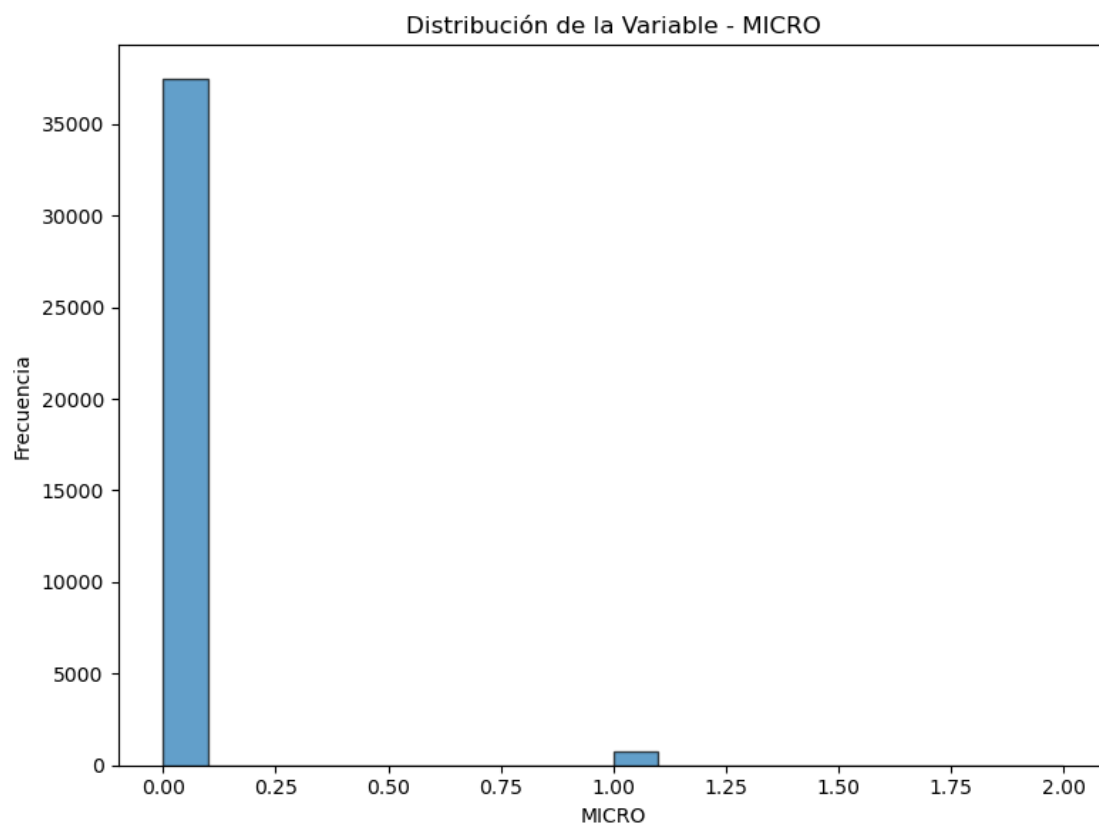
# Visualización con histogramas
for column in numeric_variables:
    plt.figure(figsize=(8, 6))
    plt.hist(data[column], bins=20, edgecolor='k', alpha=0.7)
    plt.title(f'Distribución de la Variable - {column}')
    plt.xlabel(column)
    plt.ylabel('Frecuencia')
    plt.tight_layout()
    plt.show()

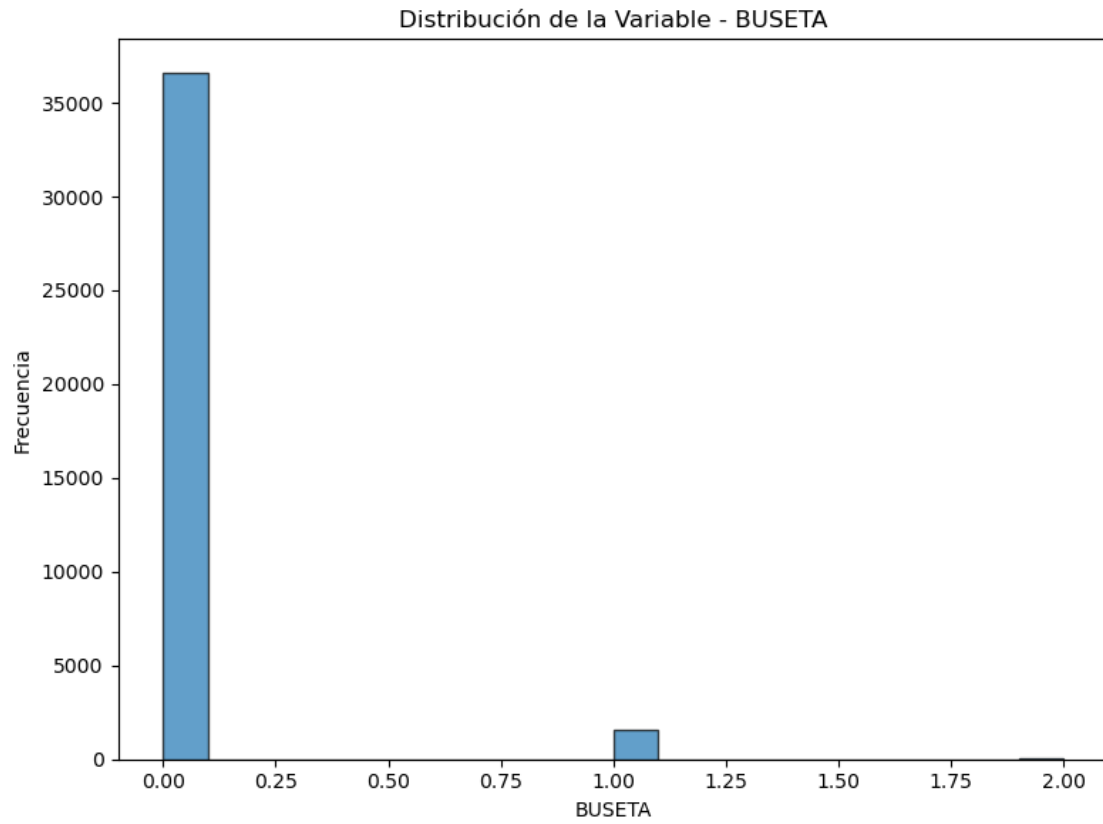
# Cálculo de estadísticas descriptivas
statistics = data[numeric_variables].describe()
print(statistics)
```

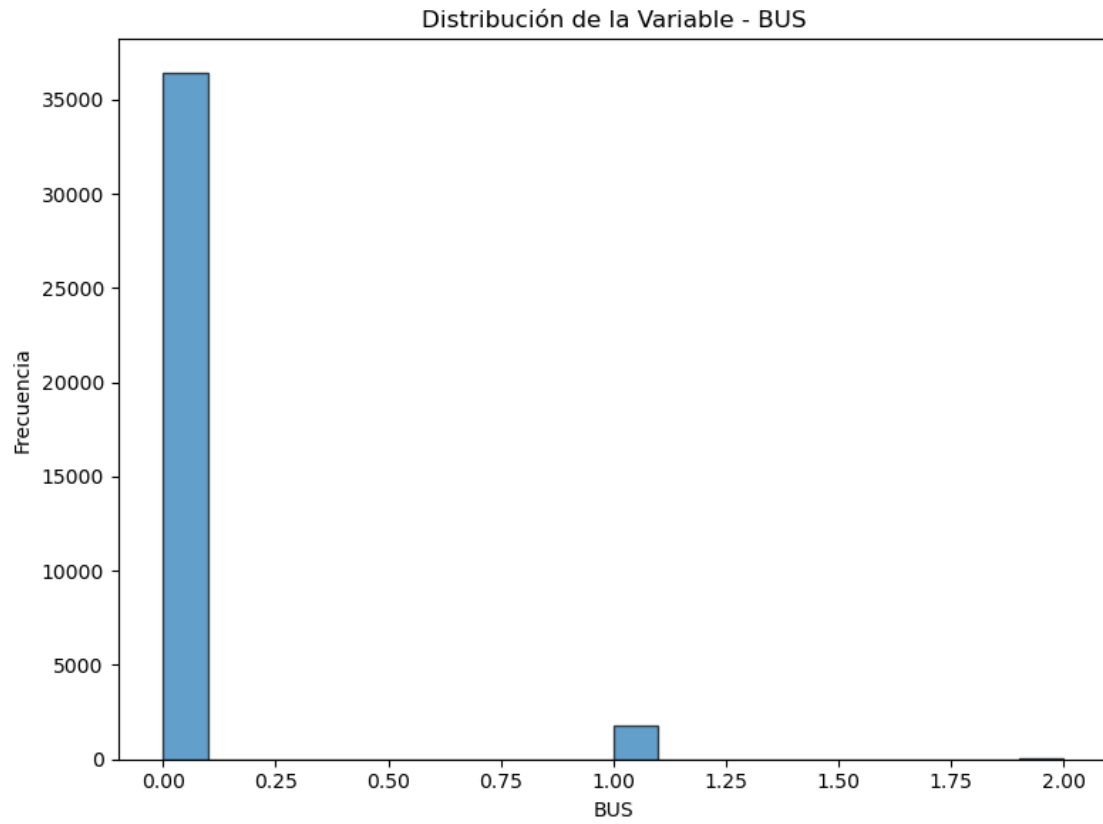


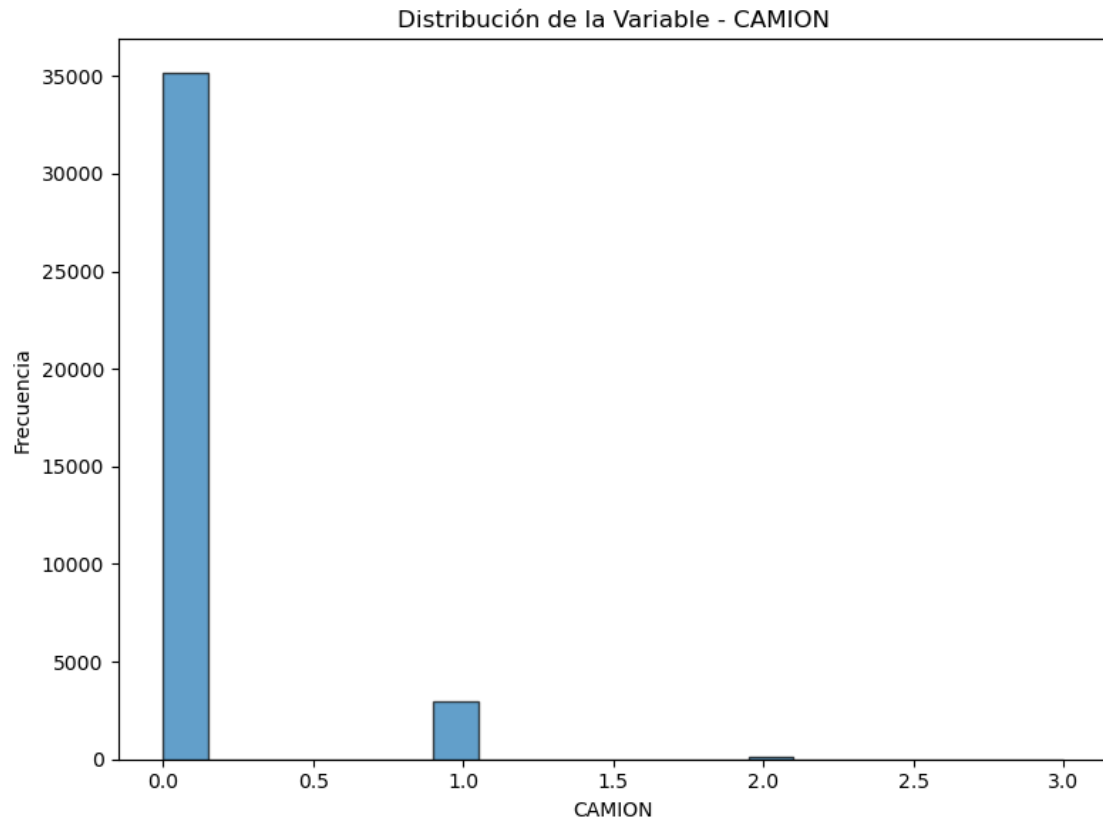


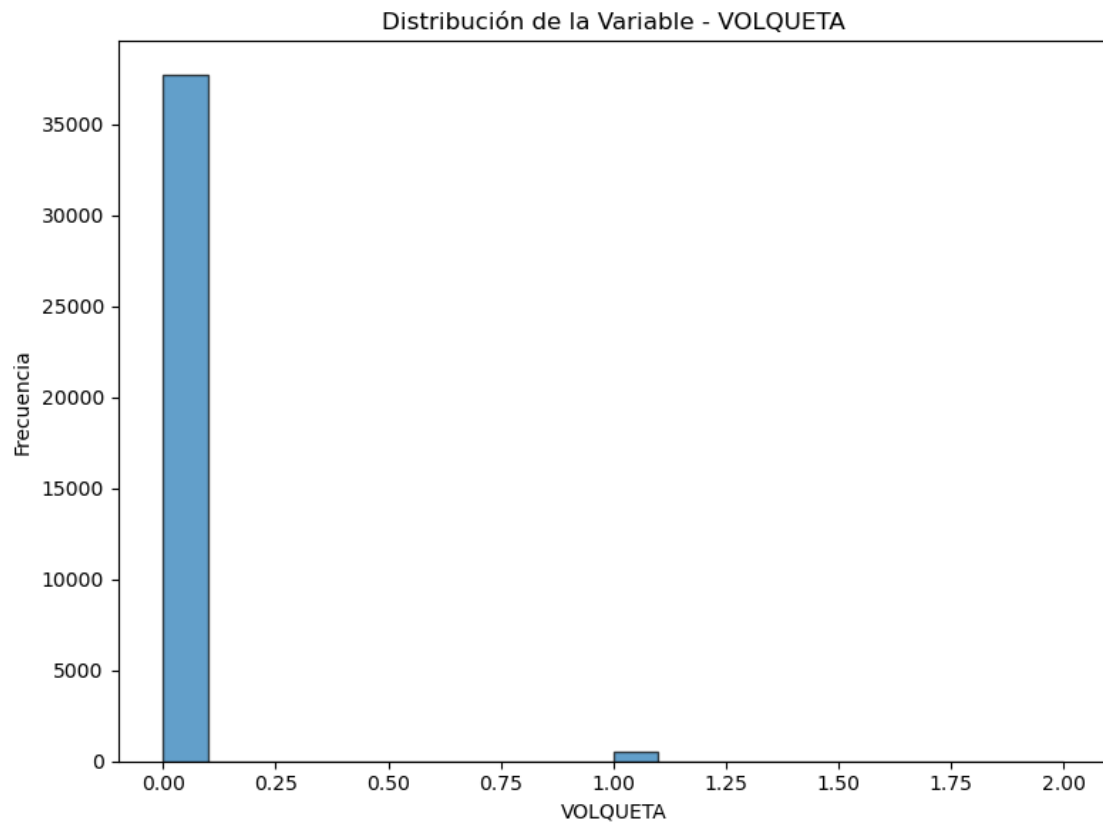


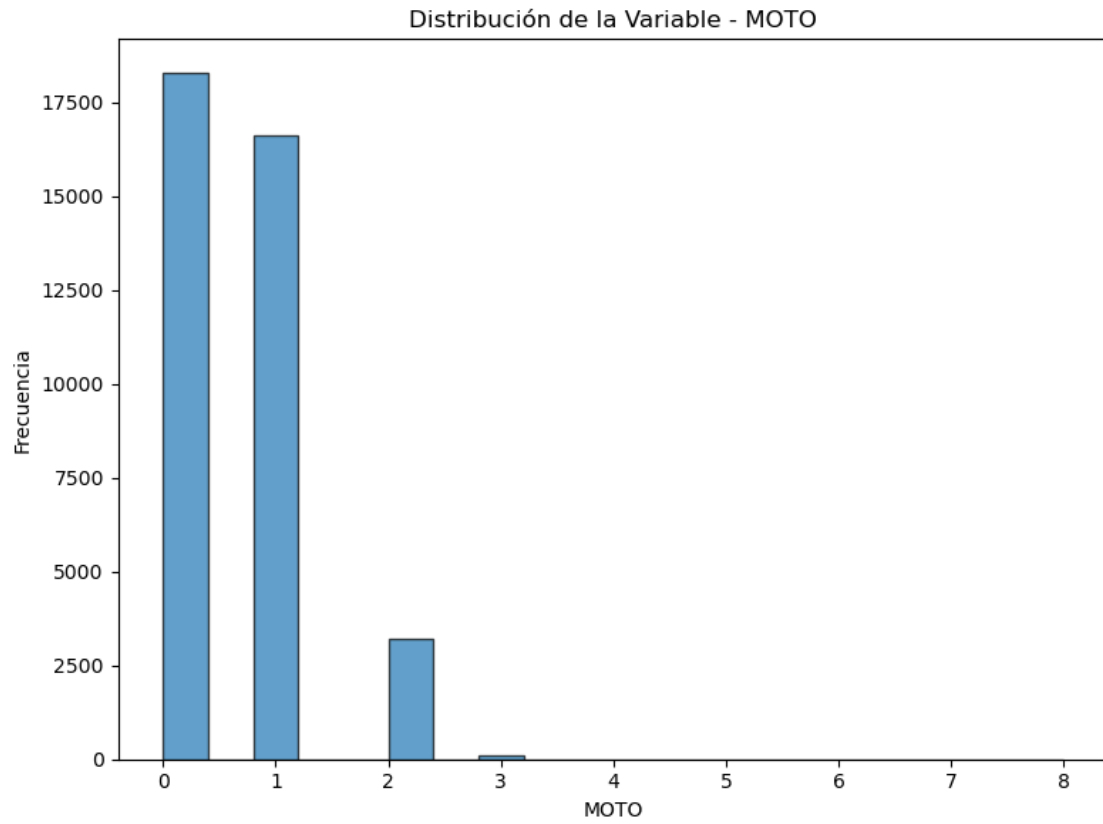


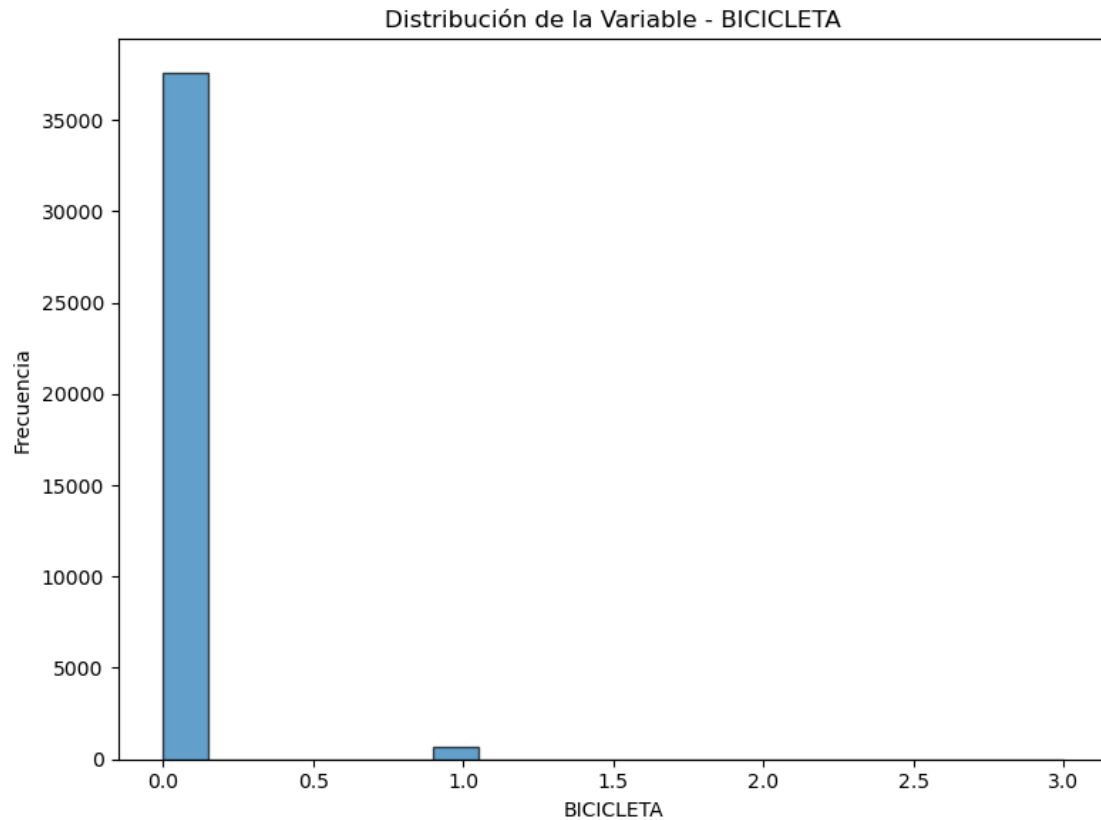












	PEATON	AUTOMOVIL	CAMIONETA	MICRO	BUSETA \
count	38197.00000	38197.000000	38197.000000	38197.000000	38197.000000
mean	0.10472	0.786292	0.197555	0.020290	0.044061
std	0.33937	0.743994	0.432211	0.141916	0.211639
min	0.00000	0.000000	0.000000	0.000000	0.000000
25%	0.00000	0.000000	0.000000	0.000000	0.000000
50%	0.00000	1.000000	0.000000	0.000000	0.000000
75%	0.00000	1.000000	0.000000	0.000000	0.000000
max	7.00000	29.000000	3.000000	2.000000	2.000000

	BUS	CAMION	VOLQUETA	MOTO	BICICLETA
count	38197.000000	38197.000000	38197.000000	38197.000000	38197.000000
mean	0.048198	0.083279	0.014242	0.611697	0.017384
std	0.218303	0.287543	0.120025	0.652550	0.132290
min	0.000000	0.000000	0.000000	0.000000	0.000000
25%	0.000000	0.000000	0.000000	0.000000	0.000000
50%	0.000000	0.000000	0.000000	1.000000	0.000000
75%	0.000000	0.000000	0.000000	1.000000	0.000000
max	2.000000	3.000000	2.000000	8.000000	3.000000

Con base en las estadísticas descriptivas de las variables numéricas relacionadas con la cantidad de vehículos involucrados en los accidentes, podemos extraer varias conclusiones y observaciones:

1. **Promedios y Distribución:** El promedio (mean) y la mediana (50%) de cada variable nos proporcionan una idea de la cantidad típica de cada tipo de vehículo involucrado en un accidente. Por ejemplo, en promedio, hay aproximadamente 0.10 peatones, 0.79 automóviles, 0.20 camionetas, etc.
2. **Varianza y Desviación Estándar:** La desviación estándar (std) mide la dispersión de los valores alrededor del promedio. Valores más altos indican una mayor variabilidad. Por ejemplo, la cantidad de motos involucradas en accidentes tiene una desviación estándar relativamente alta (0.65), lo que significa que la cantidad de motos varía significativamente entre los accidentes.
3. **Distribución Asimétrica:** Observando los valores mínimos, máximos y los percentiles (25%, 50%, 75%), podemos inferir la distribución de los datos. Por ejemplo, en la variable 'MOTO', el valor máximo es 8, lo que indica que en algunos casos hay una cantidad inusualmente alta de motos involucradas en accidentes.
4. **Percentiles:** Los percentiles nos muestran cómo se distribuyen los valores en diferentes rangos. Por ejemplo, el 75% de los accidentes involucra 1 o menos peatones, mientras que el 25% restante involucra más de 1 peatón.
5. **Valores Mínimos y Máximos:** Los valores mínimos y máximos son importantes para identificar valores atípicos o inusuales. Por ejemplo, en 'PEATON', el valor máximo es 7, lo cual podría ser inusual y requerir un análisis adicional.

11.3 3.3. Relaciones Entre Variables

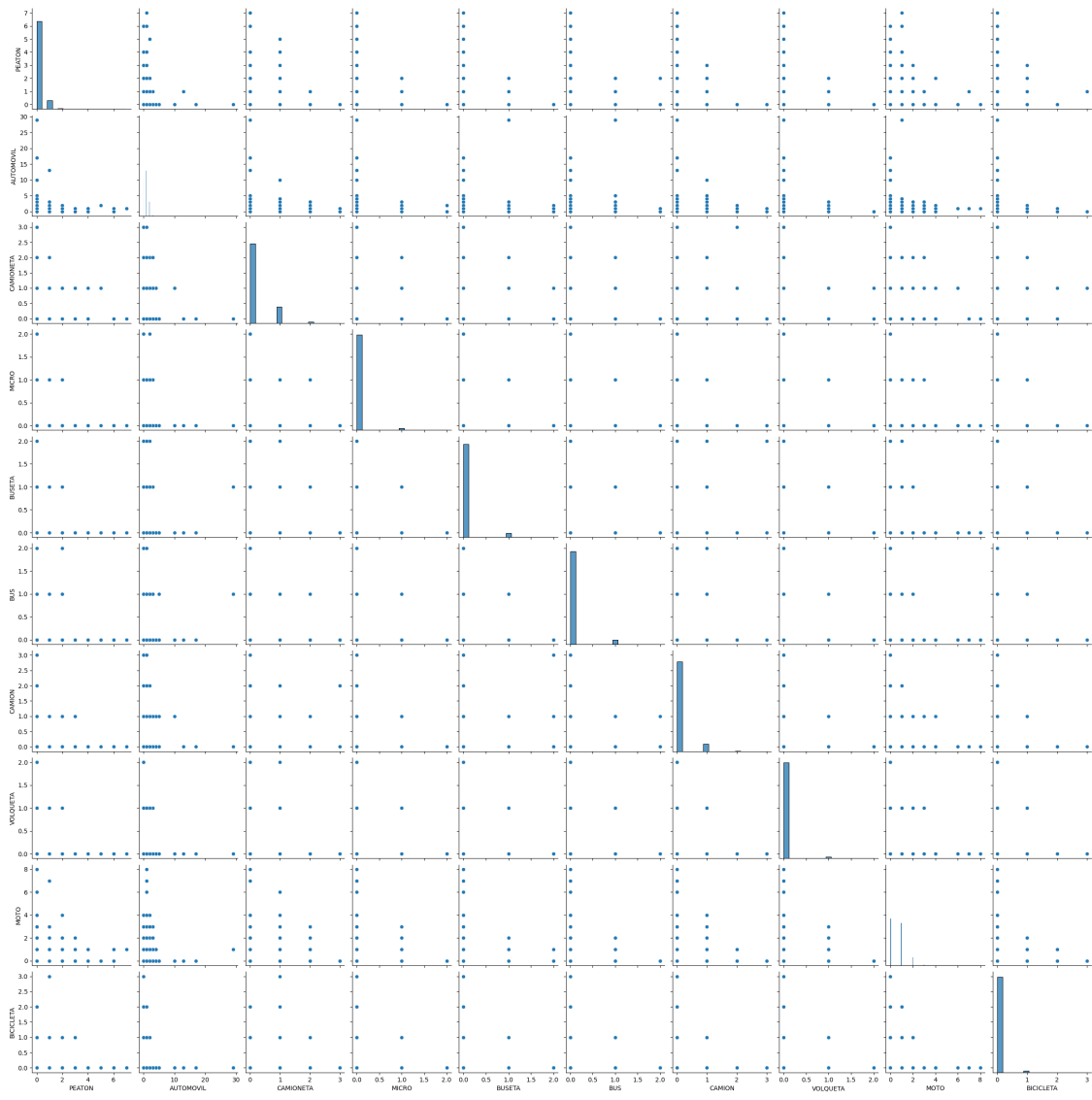
11.3.1 3.3.1. Variables Numéricas

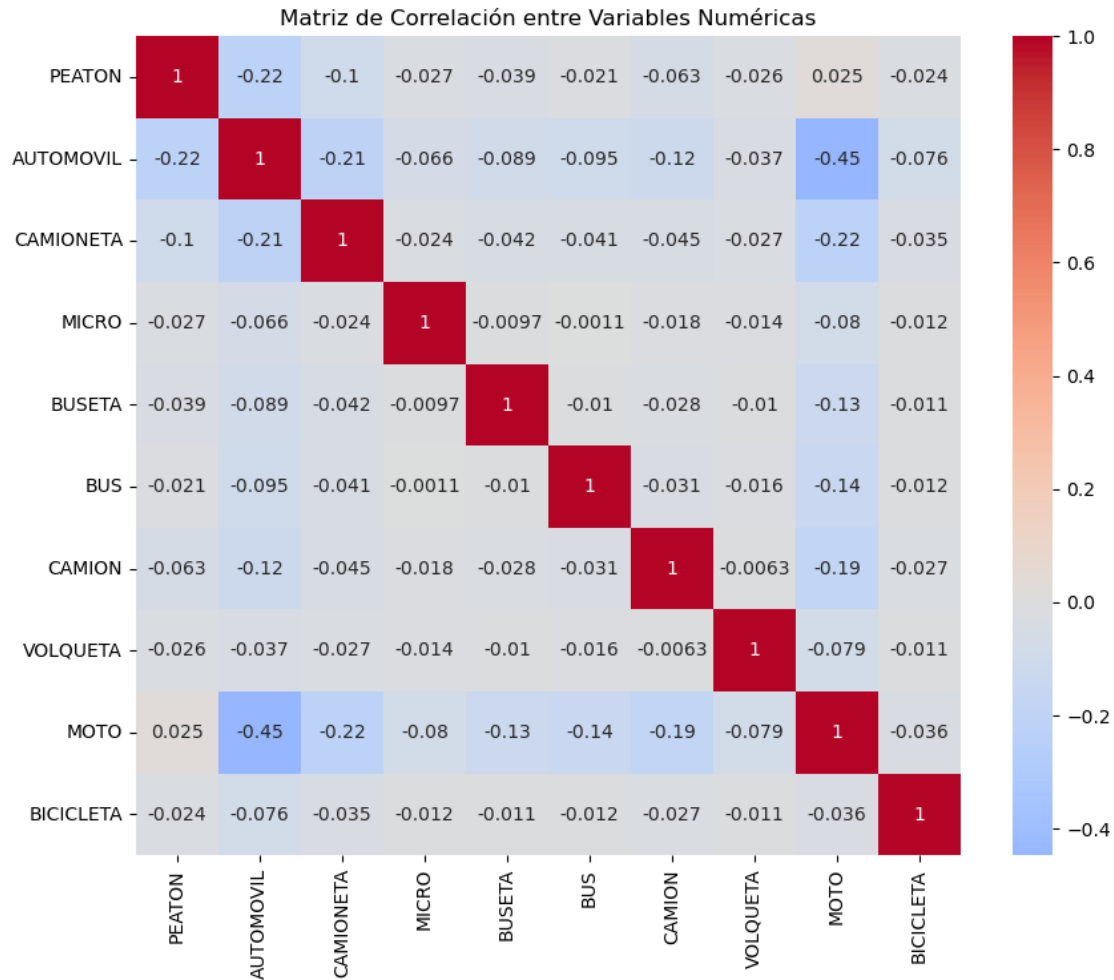
Este código te permitirá visualizar las relaciones entre pares de variables numéricas mediante gráficos de dispersión y la matriz de correlación. Los gráficos de dispersión ayudarán a identificar patrones visuales de relaciones lineales o no lineales entre variables. La matriz de correlación proporcionará valores numéricos que indican la fuerza y dirección de las relaciones lineales entre variables (valores más cercanos a 1 indican una correlación positiva fuerte, valores cercanos a -1 indican una correlación negativa fuerte y valores cercanos a 0 indican una correlación débil o nula).

```
[18]: # Variables numéricas
numeric_variables = ['PEATON', 'AUTOMOVIL', 'CAMIONETA', 'MICRO', 'BUSETA',
                    ↪ 'BUS', 'CAMION', 'VOLQUETA', 'MOTO', 'BICICLETA']

# Gráficos de dispersión
sns.pairplot(data[numeric_variables])
plt.show()

# Matriz de correlación
correlation_matrix = data[numeric_variables].corr()
plt.figure(figsize=(10, 8))
sns.heatmap(correlation_matrix, annot=True, cmap='coolwarm', center=0)
plt.title("Matriz de Correlación entre Variables Numéricas")
plt.show()
```



variables numéricas del conjunto de datos no están fuertemente correlacionadas entre sí. Los valores cercanos a -0.45 y 0.22 indican correlaciones moderadas en esas direcciones, pero en general, las correlaciones son relativamente bajas.

Esto podría sugerir que las variables numéricas en el conjunto de datos son en gran medida independientes entre sí. En otras palabras, los cambios en una variable numérica no necesariamente están relacionados con cambios predecibles en otras variables numéricas. Esto puede ser una característica importante para tener en cuenta al considerar modelos de análisis o modelos de predicción más adelante en el análisis.

Dado que las correlaciones son bajas, se podría considerar las relaciones entre variables categóricas y numéricas, ya que pueden proporcionar información valiosa sobre el contexto de los datos.

11.3.2 3.3.2. Análisis entre las variables categóricas y numéricas

```
[19]: """import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt

# Variables Categóricas
categorical_variables = ['MES', 'DÍA', 'GRAVEDAD', 'ENTIDAD', 'Propietario de Vehículo', 'DIURNIO/NOCTURNO', 'HORA RESTRICCIÓN MOTO']

# Variables Numéricas
numeric_variables = ['AÑO', 'PEATON', 'AUTOMOVIL', 'CAMPAERO', 'CAMIONETA', 'MICRO', 'BUSETA', 'BUS', 'CAMION', 'VOLQUETA', 'MOTO', 'BICICLETA', 'OTRO']

# Análisis de Boxplots para variables categóricas vs numéricas
for cat_var in categorical_variables:
    for num_var in numeric_variables:
        plt.figure(figsize=(10, 6))
        sns.boxplot(x=cat_var, y=num_var, data=data)
        plt.title(f'Boxplot de {num_var} por {cat_var}')
        plt.xticks(rotation=45)
        plt.tight_layout()
        plt.show()

# Análisis de Gráficos de Barras para variables categóricas
for cat_var in categorical_variables:
    plt.figure(figsize=(10, 6))
    sns.countplot(data=data, x=cat_var)
    plt.title(f'Gráfico de Barras de {cat_var}')
    plt.xticks(rotation=45)
    plt.tight_layout()
    plt.show()

# Matriz de Correlación para variables numéricas
correlation_matrix = data[numeric_variables].corr()
plt.figure(figsize=(12, 8))
sns.heatmap(correlation_matrix, annot=True, cmap='coolwarm', center=0)
plt.title('Matriz de Correlación entre Variables Numéricas')
plt.show()"""
```

```
[19]: "import pandas as pd\nimport seaborn as sns\nimport matplotlib.pyplot as plt\n\n# Variables Categóricas\ncategorical_variables = ['MES', 'DÍA', 'GRAVEDAD', 'ENTIDAD', 'Propietario de Vehículo', 'DIURNIO/NOCTURNO', 'HORA RESTRICCIÓN MOTO']\n\n# Variables Numéricas\nnumeric_variables = ['AÑO', 'PEATON', 'AUTOMOVIL', 'CAMPAERO', 'CAMIONETA', 'MICRO', 'BUSETA', 'BUS', 'CAMION', 'VOLQUETA', 'MOTO', 'BICICLETA', 'OTRO']\n\n# Análisis de Boxplots
```

```

para variables categóricas vs numéricas\nfor cat_var in categorical_variables:\n
for num_var in numeric_variables:\n          plt.figure(figsize=(10, 6))\n
sns.boxplot(x=cat_var, y=num_var, data=data)\n          plt.title(f'Boxplot de
{num_var} por {cat_var}')\n          plt.xticks(rotation=45)\n
plt.tight_layout()\n          plt.show()\n\n# Análisis de Gráficos de Barras para
variables categóricas\nfor cat_var in categorical_variables:\n
plt.figure(figsize=(10, 6))\n          sns.countplot(data=data, x=cat_var)\n
plt.title(f'Gráfico de Barras de {cat_var}')\n          plt.xticks(rotation=45)\n
plt.tight_layout()\n          plt.show()\n\n# Matriz de Correlación para variables
numéricas\ncorrelation_matrix =
data[numeric_variables].corr()\nplt.figure(figsize=(12,
8))\nsns.heatmap(correlation_matrix, annot=True, cmap='coolwarm',
center=0)\nplt.title('Matriz de Correlación entre Variables
Numéricas')\nplt.show()"

```

Dado que las variables numéricas en tu conjunto de datos no presentan una correlación fuerte entre sí, esto puede complicar la construcción de un modelo predictivo basado en estas variables. Sin embargo vamos a intentar aplicar un modelo clasificación para predecir donde sucedera el proximo accidente.

12 4. Convertir las etiquetas en de la variable objetivo en numéricas.

El uso de etiquetas numéricas en lugar de cadenas de texto en la variable objetivo 'GRAVEDAD' tiene varias ventajas en el contexto de modelado y análisis de datos. Aquí hay algunas razones y la correspondencia de las etiquetas numéricas:

1. **Requisito de Modelos:** Muchos algoritmos de aprendizaje automático requieren que la variable objetivo sea numérica. Al convertir las etiquetas en valores numéricos, permitimos que estos algoritmos funcionen sin problemas.
2. **Eficiencia Computacional:** Los cálculos numéricos suelen ser más eficientes que las operaciones de manipulación de cadenas de texto, lo que puede llevar a un procesamiento más rápido y eficiente de los modelos.
3. **Interpretación de Resultados:** Algunos modelos y métricas de evaluación de modelos pueden requerir valores numéricos para la variable objetivo. La conversión permite una interpretación más sencilla de los resultados del modelo.

Aquí está la correspondencia de las etiquetas numéricas para la variable 'GRAVEDAD':

- 'Solo Daños' se convierte en 0
- 'Con Heridos' se convierte en 1
- 'Con Muertos' se convierte en 2

Esta conversión asegura que cada etiqueta tenga un valor único y ordenado que puede ser utilizado por los algoritmos de aprendizaje automático para realizar clasificación multiclase.

```
[20]: from sklearn.preprocessing import LabelEncoder

# Crear un codificador de etiquetas
label_encoder = LabelEncoder()

# Convertir las etiquetas de la variable objetivo en valores numéricos
y_encoded = label_encoder.fit_transform(data['GRAVEDAD'])

# Reemplazar la columna 'GRAVEDAD' con las etiquetas numéricas
data['GRAVEDAD'] = y_encoded
```

la elección del modelo `CatBoostClassifier`, es un modelo de clasificación que se destaca por su eficacia en manejar características categóricas y por ofrecer buenos resultados con configuraciones predeterminadas.

Se realiza un proceso de clasificación utilizando el modelo `CatBoostClassifier` y proporciona un informe de clasificación para evaluar el rendimiento del modelo en un conjunto de prueba. Aquí está lo que hace paso a paso:

1. **Importación de bibliotecas:** El código importa las bibliotecas necesarias, incluyendo `pandas` para el manejo de datos, `train_test_split` para dividir los datos en conjuntos de entrenamiento y prueba, `CatBoostClassifier` para el modelo de clasificación `CatBoost` y `classification_report` para generar el informe de clasificación.
2. **Definición de columnas categóricas:** Se definen las columnas categóricas que se utilizarán como características para el modelo. Estas son las columnas que contienen datos categóricos en el conjunto de datos.
3. **División de datos:** Se dividen los datos en características (X) y la variable objetivo (y) que se desea predecir. En este caso, 'GRAVEDAD' es la variable objetivo que se eliminará de las características.
4. **División en conjuntos de entrenamiento y prueba:** Los datos se dividen en conjuntos de entrenamiento y prueba utilizando `train_test_split`. Esto es fundamental para evaluar el rendimiento del modelo en datos no vistos.
5. **Creación del modelo CatBoost:** Se crea el modelo `CatBoostClassifier` con 1000 iteraciones y las columnas categóricas definidas se especifican como `cat_features`. Se establece una semilla aleatoria para garantizar la reproducibilidad.
6. **Entrenamiento del modelo:** El modelo `CatBoost` se entrena utilizando los datos de entrenamiento y se evalúa en el conjunto de prueba utilizando el argumento `eval_set`. También se implementa el `early stopping` con `early_stopping_rounds` para detener el entrenamiento si no se observa mejora en la métrica de evaluación.
7. **Predicciones:** Se utilizan las características del conjunto de prueba para realizar predicciones utilizando el modelo entrenado.
8. **Informe de clasificación:** Se calcula el informe de clasificación utilizando la función `classification_report`, que muestra métricas como precisión, recall y F1-score para cada clase en la variable objetivo.

13 5. “Creación y Evaluación de un Modelo CatBoost para Clasificación”

```
[21]: import pandas as pd
from sklearn.model_selection import train_test_split
from catboost import CatBoostClassifier
from sklearn.metrics import classification_report, confusion_matrix
import seaborn as sns
import matplotlib.pyplot as plt

# Define las columnas categóricas
categorical_cols = ['MES', 'DÍA', 'VIA 1', 'BARRIO', 'HORA', 'ENTIDAD',
                    ↪ 'nombrecomuna',
                    ↪ 'Propietario de Vehículo', 'DIURNIO/NOCTURNO', 'HORA',
                    ↪ 'RESTRICCION MOTO']

# Divide los datos en características (X) y variable objetivo (y)
X = data.drop(['GRAVEDAD', 'FECHA', 'ORDEN'], axis=1)
y = data['GRAVEDAD']

# Divide los datos en conjuntos de entrenamiento y prueba
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2,
                    ↪ random_state=42)

# Crea el modelo CatBoost
catboost_model = CatBoostClassifier(iterations=1000,
                    ↪ cat_features=categorical_cols, random_seed=42)

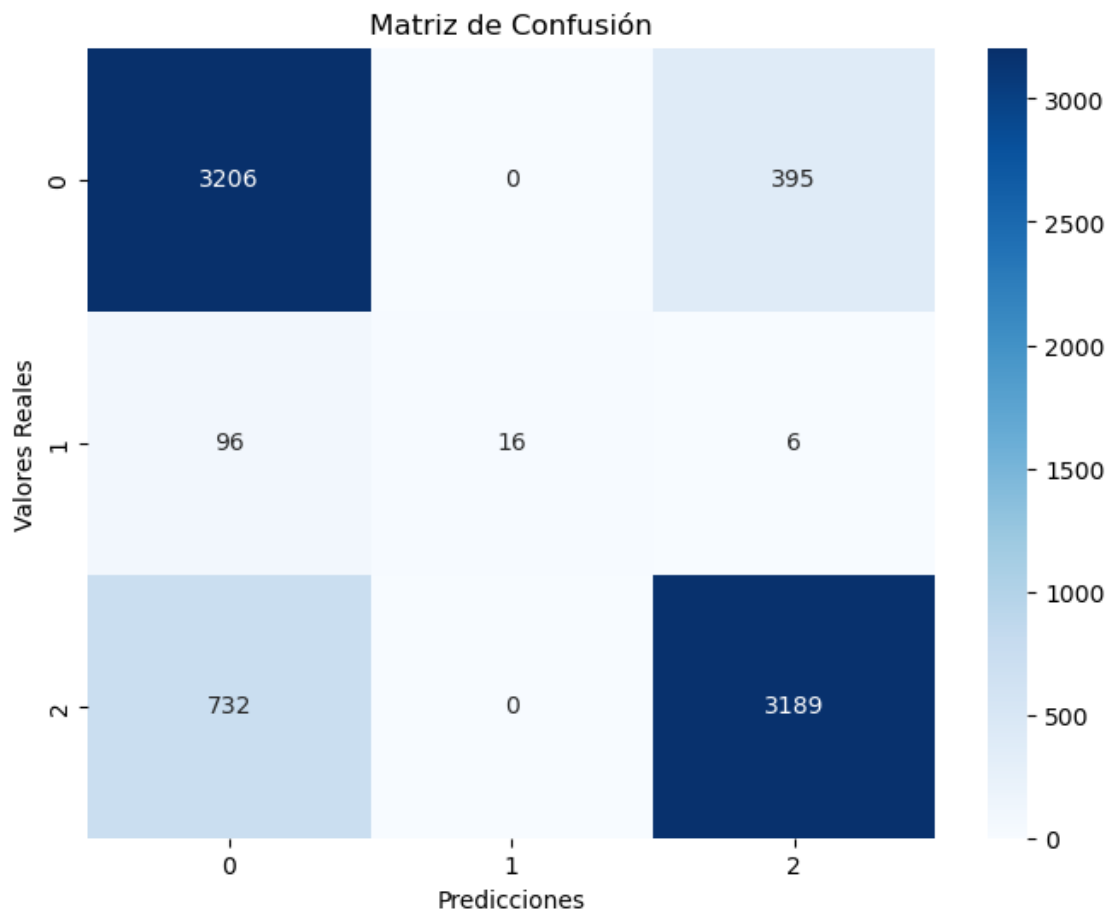
# Entrena el modelo CatBoost
catboost_model.fit(X_train, y_train, eval_set=(X_test, y_test),
                    ↪ early_stopping_rounds=10, verbose=False)

# Realiza predicciones en el conjunto de prueba
y_pred = catboost_model.predict(X_test)

# Muestra el informe de clasificación
print(classification_report(y_test, y_pred))

# Matriz de Confusión
confusion = confusion_matrix(y_test, y_pred)
plt.figure(figsize=(8, 6))
sns.heatmap(confusion, annot=True, fmt="d", cmap="Blues")
plt.title("Matriz de Confusión")
plt.xlabel("Predicciones")
plt.ylabel("Valores Reales")
plt.show()
```

	precision	recall	f1-score	support
0	0.79	0.89	0.84	3601
1	1.00	0.14	0.24	118
2	0.89	0.81	0.85	3921
accuracy			0.84	7640
macro avg	0.89	0.61	0.64	7640
weighted avg	0.85	0.84	0.84	7640



La evaluación del modelo CatBoost muestra cómo el modelo se desempeña en términos de precisión, recall (también conocido como sensibilidad), f1-score y el soporte de cada clase. Aquí está la interpretación de los resultados:

- **Precisión (Precision):** La precisión es la proporción de predicciones positivas que fueron correctas con respecto a todas las predicciones positivas realizadas por el modelo. Para la clase “Con Daños” (clase 0), la precisión es del 79%, lo que significa que el 79% de las predicciones de esta clase fueron correctas. Para la clase “Con Heridos” (clase 1), la precisión es del 94%,

lo que indica que el 94% de las predicciones de esta clase fueron correctas. Para la clase “Con Muertos” (clase 2), la precisión es del 89%.

- **Recall (Sensibilidad):** El recall es la proporción de instancias positivas que fueron correctamente detectadas por el modelo con respecto a todas las instancias reales positivas en los datos. Para la clase “Con Daños”, el recall es del 89%, lo que significa que el modelo identificó correctamente el 89% de las instancias reales de esta clase. Para la clase “Con Heridos”, el recall es del 14%, indicando que el modelo solo detectó correctamente el 14% de las instancias reales de esta clase. Para la clase “Con Muertos”, el recall es del 81%.
- **F1-Score:** El F1-score es una medida que combina la precisión y el recall, proporcionando una puntuación única que equilibra ambas métricas. Para la clase “Con Daños”, el F1-score es 0.84. Para la clase “Con Heridos”, el F1-score es 0.24, lo que indica que esta clase tiene un rendimiento bajo en términos de equilibrio entre precisión y recall. Para la clase “Con Muertos”, el F1-score es 0.85.
- **Soporte (Support):** El soporte se refiere al número de instancias reales en cada clase en el conjunto de pruebas. Para la clase “Con Daños”, hay 3601 instancias; para la clase “Con Heridos”, hay 118 instancias; y para la clase “Con Muertos”, hay 3921 instancias.
- **Accuracy (Exactitud):** La exactitud general del modelo es del 84%, lo que indica la proporción de predicciones totales que son correctas en relación con todas las predicciones realizadas por el modelo.
- **Macro Avg y Weighted Avg:** Estas métricas proporcionan promedios ponderados y no ponderados de las métricas anteriores para todas las clases.

El modelo CatBoost muestra un buen rendimiento en la clasificación de las clases “Con Daños” y “Con Muertos”, con altas precisiones y recalls. Sin embargo, el modelo tiene dificultades para identificar correctamente la clase “Con Heridos”, como se refleja en la baja precisión y recall de esta clase. Esto sugiere que el modelo podría beneficiarse de una mayor atención o ajustes específicos para mejorar su rendimiento en la detección de instancias de la clase “Con Heridos”.

13.1 Otras evaluaciones del modelo CatBoost

Este código realiza la evaluación de un modelo de clasificación multiclase (en este caso, el modelo CatBoost) utilizando la métrica de Curva ROC y el Área bajo la Curva (AUC). La Curva ROC es una representación gráfica de la tasa de verdaderos positivos (sensibilidad) frente a la tasa de falsos positivos (1 - especificidad) a medida que se ajusta el umbral de clasificación. El AUC mide el área bajo esta curva y proporciona una medida cuantitativa de cuán bien el modelo es capaz de distinguir entre las clases en un problema de clasificación.

Este código es importante porque la Curva ROC y el AUC son métricas útiles para evaluar el rendimiento de un modelo en problemas de clasificación multiclase, y permiten visualizar cómo el modelo está realizando la clasificación para cada clase individualmente y para el conjunto total de clases. Además, el AUC Macro promedia los AUC de todas las clases y proporciona una evaluación global del rendimiento del modelo en todas las clases.

```
[22]: from sklearn.metrics import roc_curve, auc

# Calcular la Curva ROC y el AUC para cada clase
```



```

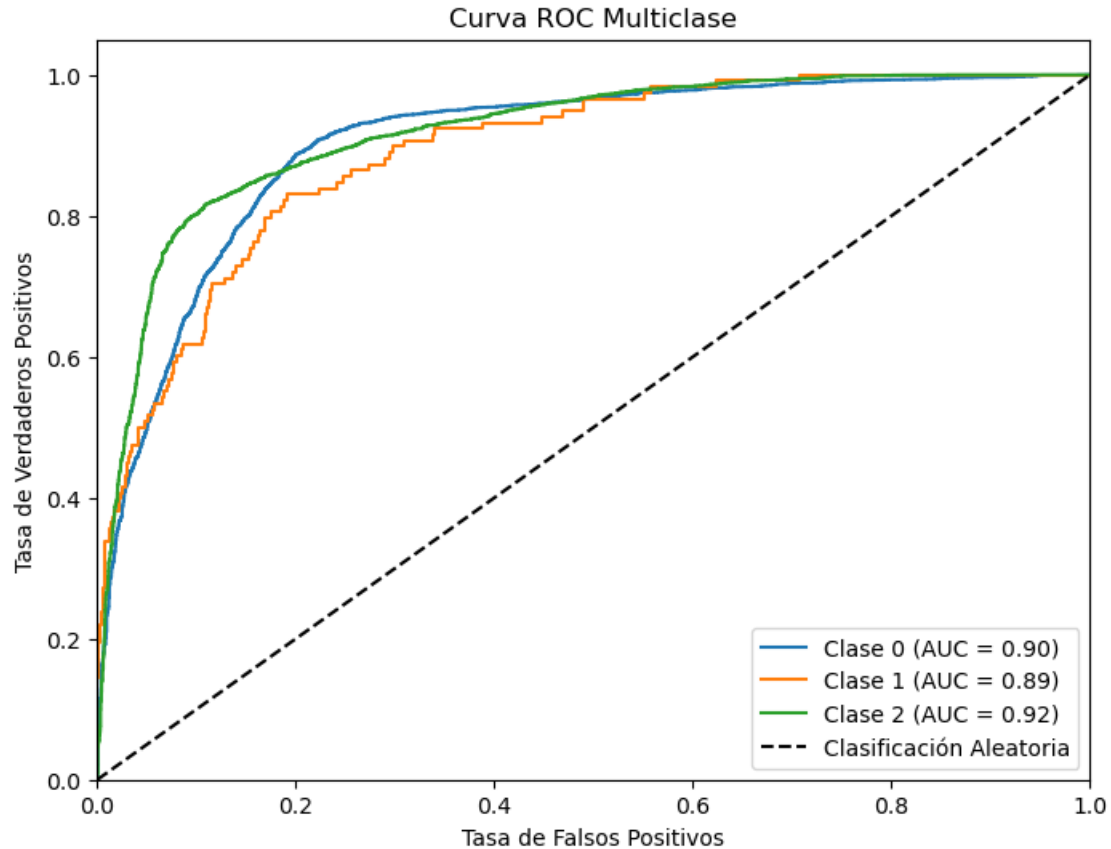
n_classes = len(catboost_model.classes_)
y_prob = catboost_model.predict_proba(X_test)
fpr = dict()
tpr = dict()
roc_auc = dict()
for i in range(n_classes):
    fpr[i], tpr[i], _ = roc_curve(y_test == i, y_prob[:, i])
    roc_auc[i] = auc(fpr[i], tpr[i])

# Calcular el AUC Macro promediando los AUC de todas las clases
roc_auc_macro = sum(roc_auc.values()) / n_classes

# Graficar la Curva ROC para cada clase
plt.figure(figsize=(8, 6))
for i in range(n_classes):
    plt.plot(fpr[i], tpr[i], label=f'Clase {i} (AUC = {roc_auc[i]:.2f})')
plt.plot([0, 1], [0, 1], 'k--', label='Clasificación Aleatoria')
plt.xlim([0.0, 1.0])
plt.ylim([0.0, 1.05])
plt.xlabel('Tasa de Falsos Positivos')
plt.ylabel('Tasa de Verdaderos Positivos')
plt.title('Curva ROC Multiclase')
plt.legend(loc="lower right")
plt.show()

# Mostrar el AUC Macro
print(f'Área bajo la Curva (AUC) Macro: {roc_auc_macro:.2f}')

```



Área bajo la Curva (AUC) Macro: 0.90

Un AUC (Área bajo la Curva) de 0.90 es indicativo de un buen rendimiento del modelo en términos de su capacidad para distinguir entre las clases en el problema de clasificación multiclase. Las AUC individuales para cada clase también muestran que el modelo tiene una buena capacidad de discriminación para cada clase por separado.

El AUC Macro de 0.90 sugiere que el modelo tiene un buen rendimiento general en todas las clases, lo cual es muy positivo. La curva ROC y los valores de AUC proporcionan información valiosa sobre la calidad del modelo y su capacidad para realizar clasificaciones precisas.

13.2 5.2. Manejo de Desequilibrio de Clases:

Si las clases de la variable objetivo están desequilibradas, es decir, hay muchas más instancias de una clase que de las otras, considera técnicas de manejo de desequilibrio de clases, como la sobremuestreo(Oversampling), submuestreo(Undersampling) o el uso de pesos de clase.

Para este caso se utilizó la técnica de oversampling para abordar el desequilibrio de clases en el conjunto de datos. El desequilibrio de clases ocurre cuando una o varias clases tienen muchas más instancias que otras, lo que puede llevar a que el modelo tenga dificultades para aprender y generalizar correctamente en las clases minoritarias. El oversampling es una técnica que consiste en aumentar el número de instancias de las clases minoritarias para igualar su proporción con las

clases mayoritarias.

```
[23]: import pandas as pd
from sklearn.model_selection import train_test_split
from catboost import CatBoostClassifier
from sklearn.metrics import classification_report, confusion_matrix
import seaborn as sns
import matplotlib.pyplot as plt
from imblearn.over_sampling import RandomOverSampler

# Define las columnas categóricas
categorical_cols = ['MES', 'DÍA', 'VIA 1', 'BARRIO', 'HORA', 'ENTIDAD',
                    ↪ 'nombrecomuna',
                    'Propietario de Vehículo', 'DIURNIO/NOCTURNO', 'HORA',
                    ↪ 'RESTRICCION MOTO']

# Divide los datos en características (X) y variable objetivo (y)
X = data.drop(['GRAVEDAD', 'FECHA', 'ORDEN'], axis=1)
y = data['GRAVEDAD']

# Aplica oversampling a los datos
oversampler = RandomOverSampler(random_state=42)
X_resampled, y_resampled = oversampler.fit_resample(X, y)

# Divide los datos en conjuntos de entrenamiento y prueba
X_train, X_test, y_train, y_test = train_test_split(X_resampled, y_resampled,
                    ↪ test_size=0.2, random_state=42)

# Crea el modelo CatBoost
catboost_model = CatBoostClassifier(iterations=500,
                    ↪ cat_features=categorical_cols, random_seed=42)

# Entrena el modelo CatBoost
catboost_model.fit(X_train, y_train, eval_set=(X_test, y_test),
                    ↪ early_stopping_rounds=10, verbose=False)

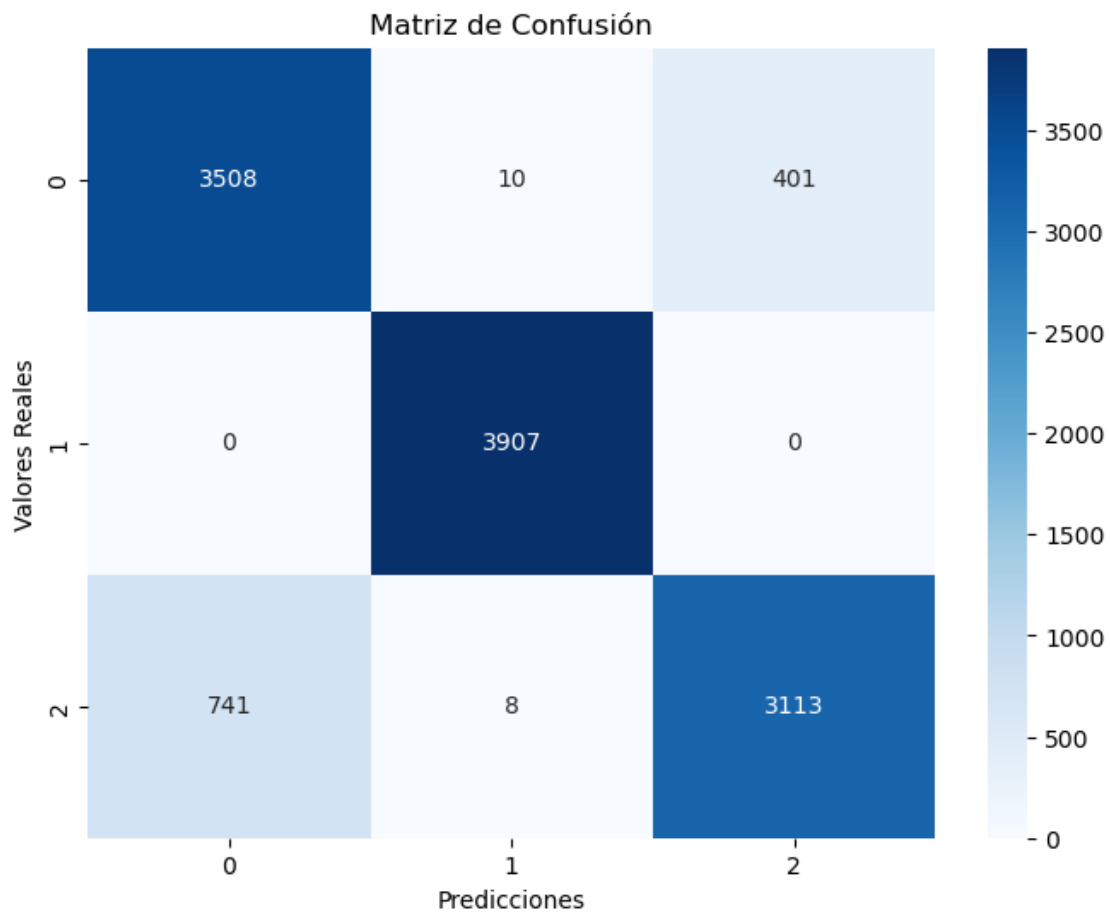
# Realiza predicciones en el conjunto de prueba
y_pred = catboost_model.predict(X_test)

# Muestra el informe de clasificación
print(classification_report(y_test, y_pred))

# Matriz de Confusión
confusion = confusion_matrix(y_test, y_pred)
plt.figure(figsize=(8, 6))
sns.heatmap(confusion, annot=True, fmt="d", cmap="Blues")
```

```
plt.title("Matriz de Confusión")
plt.xlabel("Predicciones")
plt.ylabel("Valores Reales")
plt.show()
```

	precision	recall	f1-score	support
0	0.83	0.90	0.86	3919
1	1.00	1.00	1.00	3907
2	0.89	0.81	0.84	3862
accuracy			0.90	11688
macro avg	0.90	0.90	0.90	11688
weighted avg	0.90	0.90	0.90	11688



```
[25]: from sklearn.model_selection import cross_val_score
```

```

# Realiza cross-validation y muestra los resultados
scores = cross_val_score(catboost_model, X_resampled, y_resampled, cv=5,
    ↳scoring='accuracy')
print("Accuracy en cada fold:", scores)
print("Accuracy promedio:", scores.mean())

# Entrena el modelo CatBoost en todos los datos de entrenamiento
catboost_model.fit(X_resampled, y_resampled)

# Realiza predicciones en el conjunto de prueba
y_pred = catboost_model.predict(X_resampled)

# Muestra el informe de clasificación en todos los datos
print("Informe de Clasificación en todos los datos:")
print(classification_report(y_resampled, y_pred))

# Matriz de Confusión en todos los datos
confusion = confusion_matrix(y_resampled, y_pred)
plt.figure(figsize=(8, 6))
sns.heatmap(confusion, annot=True, fmt="d", cmap="Blues")
plt.title("Matriz de Confusión en todos los datos")
plt.xlabel("Predicciones")
plt.ylabel("Valores Reales")
plt.show()

```

Learning rate set to 0.172923

0:	learn: 0.9675645	total: 192ms	remaining: 1m 35s
1:	learn: 0.8849103	total: 391ms	remaining: 1m 37s
2:	learn: 0.8215081	total: 552ms	remaining: 1m 31s
3:	learn: 0.7743998	total: 738ms	remaining: 1m 31s
4:	learn: 0.6822487	total: 943ms	remaining: 1m 33s
5:	learn: 0.6540676	total: 1.13s	remaining: 1m 32s
6:	learn: 0.6038246	total: 1.31s	remaining: 1m 32s
7:	learn: 0.5462266	total: 1.52s	remaining: 1m 33s
8:	learn: 0.5007032	total: 1.7s	remaining: 1m 32s
9:	learn: 0.4610557	total: 1.93s	remaining: 1m 34s
10:	learn: 0.4337150	total: 2.11s	remaining: 1m 33s
11:	learn: 0.4121667	total: 2.37s	remaining: 1m 36s
12:	learn: 0.4055972	total: 2.55s	remaining: 1m 35s
13:	learn: 0.3843241	total: 2.77s	remaining: 1m 36s
14:	learn: 0.3686758	total: 2.99s	remaining: 1m 36s
15:	learn: 0.3572385	total: 3.21s	remaining: 1m 37s
16:	learn: 0.3392341	total: 3.44s	remaining: 1m 37s
17:	learn: 0.3316773	total: 3.64s	remaining: 1m 37s
18:	learn: 0.3180817	total: 3.87s	remaining: 1m 37s
19:	learn: 0.3068736	total: 4.08s	remaining: 1m 38s
20:	learn: 0.3014468	total: 4.28s	remaining: 1m 37s

21:	learn: 0.2931814	total: 4.5s	remaining: 1m 37s
22:	learn: 0.2911544	total: 4.72s	remaining: 1m 37s
23:	learn: 0.2896651	total: 4.95s	remaining: 1m 38s
24:	learn: 0.2883546	total: 5.16s	remaining: 1m 38s
25:	learn: 0.2871943	total: 5.36s	remaining: 1m 37s
26:	learn: 0.2834881	total: 5.57s	remaining: 1m 37s
27:	learn: 0.2767325	total: 5.79s	remaining: 1m 37s
28:	learn: 0.2759958	total: 5.97s	remaining: 1m 36s
29:	learn: 0.2749382	total: 6.17s	remaining: 1m 36s
30:	learn: 0.2700063	total: 6.35s	remaining: 1m 36s
31:	learn: 0.2663163	total: 6.58s	remaining: 1m 36s
32:	learn: 0.2657131	total: 6.76s	remaining: 1m 35s
33:	learn: 0.2653552	total: 6.96s	remaining: 1m 35s
34:	learn: 0.2647126	total: 7.15s	remaining: 1m 34s
35:	learn: 0.2612041	total: 7.36s	remaining: 1m 34s
36:	learn: 0.2609472	total: 7.56s	remaining: 1m 34s
37:	learn: 0.2581033	total: 7.76s	remaining: 1m 34s
38:	learn: 0.2570619	total: 7.96s	remaining: 1m 34s
39:	learn: 0.2564952	total: 8.15s	remaining: 1m 33s
40:	learn: 0.2559448	total: 8.33s	remaining: 1m 33s
41:	learn: 0.2557245	total: 8.5s	remaining: 1m 32s
42:	learn: 0.2530036	total: 8.7s	remaining: 1m 32s
43:	learn: 0.2516791	total: 8.89s	remaining: 1m 32s
44:	learn: 0.2497868	total: 9.09s	remaining: 1m 31s
45:	learn: 0.2494412	total: 9.27s	remaining: 1m 31s
46:	learn: 0.2490705	total: 9.45s	remaining: 1m 31s
47:	learn: 0.2489626	total: 9.64s	remaining: 1m 30s
48:	learn: 0.2485766	total: 9.85s	remaining: 1m 30s
49:	learn: 0.2483100	total: 10.1s	remaining: 1m 30s
50:	learn: 0.2479728	total: 10.3s	remaining: 1m 30s
51:	learn: 0.2475118	total: 10.5s	remaining: 1m 30s
52:	learn: 0.2471713	total: 10.7s	remaining: 1m 30s
53:	learn: 0.2467241	total: 11s	remaining: 1m 30s
54:	learn: 0.2465547	total: 11.2s	remaining: 1m 30s
55:	learn: 0.2462840	total: 11.4s	remaining: 1m 30s
56:	learn: 0.2457915	total: 11.6s	remaining: 1m 29s
57:	learn: 0.2455256	total: 11.8s	remaining: 1m 29s
58:	learn: 0.2452259	total: 12s	remaining: 1m 29s
59:	learn: 0.2448287	total: 12.2s	remaining: 1m 29s
60:	learn: 0.2446977	total: 12.4s	remaining: 1m 29s
61:	learn: 0.2444532	total: 12.6s	remaining: 1m 29s
62:	learn: 0.2439329	total: 12.9s	remaining: 1m 29s
63:	learn: 0.2419126	total: 13.1s	remaining: 1m 29s
64:	learn: 0.2416110	total: 13.3s	remaining: 1m 28s
65:	learn: 0.2414715	total: 13.5s	remaining: 1m 28s
66:	learn: 0.2404264	total: 13.9s	remaining: 1m 29s
67:	learn: 0.2402746	total: 14.2s	remaining: 1m 30s
68:	learn: 0.2400219	total: 14.5s	remaining: 1m 30s

69:	learn: 0.2398981	total: 14.8s	remaining: 1m 30s
70:	learn: 0.2397692	total: 15.1s	remaining: 1m 31s
71:	learn: 0.2383486	total: 15.4s	remaining: 1m 31s
72:	learn: 0.2381745	total: 15.7s	remaining: 1m 31s
73:	learn: 0.2380457	total: 15.9s	remaining: 1m 31s
74:	learn: 0.2379090	total: 16.2s	remaining: 1m 31s
75:	learn: 0.2377904	total: 16.5s	remaining: 1m 31s
76:	learn: 0.2376363	total: 16.8s	remaining: 1m 32s
77:	learn: 0.2376025	total: 17s	remaining: 1m 32s
78:	learn: 0.2370304	total: 17.3s	remaining: 1m 32s
79:	learn: 0.2368649	total: 17.5s	remaining: 1m 32s
80:	learn: 0.2367502	total: 17.8s	remaining: 1m 31s
81:	learn: 0.2354844	total: 18s	remaining: 1m 31s
82:	learn: 0.2354029	total: 18.2s	remaining: 1m 31s
83:	learn: 0.2352129	total: 18.5s	remaining: 1m 31s
84:	learn: 0.2351461	total: 18.7s	remaining: 1m 31s
85:	learn: 0.2349288	total: 18.9s	remaining: 1m 31s
86:	learn: 0.2347308	total: 19.2s	remaining: 1m 31s
87:	learn: 0.2343981	total: 19.4s	remaining: 1m 30s
88:	learn: 0.2341674	total: 19.6s	remaining: 1m 30s
89:	learn: 0.2340783	total: 20s	remaining: 1m 31s
90:	learn: 0.2339784	total: 20.3s	remaining: 1m 31s
91:	learn: 0.2339488	total: 20.6s	remaining: 1m 31s
92:	learn: 0.2339359	total: 20.8s	remaining: 1m 31s
93:	learn: 0.2338282	total: 21.1s	remaining: 1m 31s
94:	learn: 0.2336582	total: 21.4s	remaining: 1m 31s
95:	learn: 0.2335178	total: 21.7s	remaining: 1m 31s
96:	learn: 0.2334142	total: 22.1s	remaining: 1m 31s
97:	learn: 0.2333696	total: 22.3s	remaining: 1m 31s
98:	learn: 0.2331706	total: 22.6s	remaining: 1m 31s
99:	learn: 0.2330700	total: 22.9s	remaining: 1m 31s
100:	learn: 0.2326678	total: 23.2s	remaining: 1m 31s
101:	learn: 0.2325485	total: 23.5s	remaining: 1m 31s
102:	learn: 0.2324675	total: 23.7s	remaining: 1m 31s
103:	learn: 0.2323582	total: 23.9s	remaining: 1m 31s
104:	learn: 0.2322620	total: 24.1s	remaining: 1m 30s
105:	learn: 0.2321327	total: 24.3s	remaining: 1m 30s
106:	learn: 0.2319638	total: 24.5s	remaining: 1m 29s
107:	learn: 0.2318706	total: 24.6s	remaining: 1m 29s
108:	learn: 0.2317839	total: 24.8s	remaining: 1m 28s
109:	learn: 0.2317360	total: 25s	remaining: 1m 28s
110:	learn: 0.2315021	total: 25.1s	remaining: 1m 28s
111:	learn: 0.2313461	total: 25.3s	remaining: 1m 27s
112:	learn: 0.2311387	total: 25.5s	remaining: 1m 27s
113:	learn: 0.2310929	total: 25.7s	remaining: 1m 26s
114:	learn: 0.2310464	total: 25.9s	remaining: 1m 26s
115:	learn: 0.2309761	total: 26.2s	remaining: 1m 26s
116:	learn: 0.2308841	total: 26.4s	remaining: 1m 26s

117:	learn: 0.2305523	total: 26.7s	remaining: 1m 26s
118:	learn: 0.2303608	total: 27s	remaining: 1m 26s
119:	learn: 0.2303446	total: 27.2s	remaining: 1m 26s
120:	learn: 0.2302481	total: 27.5s	remaining: 1m 26s
121:	learn: 0.2302148	total: 27.8s	remaining: 1m 26s
122:	learn: 0.2300823	total: 28.1s	remaining: 1m 26s
123:	learn: 0.2299695	total: 28.3s	remaining: 1m 25s
124:	learn: 0.2298712	total: 28.6s	remaining: 1m 25s
125:	learn: 0.2297908	total: 28.9s	remaining: 1m 25s
126:	learn: 0.2290283	total: 29.2s	remaining: 1m 25s
127:	learn: 0.2290015	total: 29.5s	remaining: 1m 25s
128:	learn: 0.2288538	total: 29.7s	remaining: 1m 25s
129:	learn: 0.2287938	total: 30s	remaining: 1m 25s
130:	learn: 0.2286958	total: 30.3s	remaining: 1m 25s
131:	learn: 0.2283906	total: 30.6s	remaining: 1m 25s
132:	learn: 0.2283843	total: 30.9s	remaining: 1m 25s
133:	learn: 0.2282590	total: 31.1s	remaining: 1m 25s
134:	learn: 0.2281212	total: 31.4s	remaining: 1m 24s
135:	learn: 0.2280712	total: 31.7s	remaining: 1m 24s
136:	learn: 0.2279955	total: 32s	remaining: 1m 24s
137:	learn: 0.2279147	total: 32.3s	remaining: 1m 24s
138:	learn: 0.2278542	total: 32.6s	remaining: 1m 24s
139:	learn: 0.2277970	total: 32.9s	remaining: 1m 24s
140:	learn: 0.2276919	total: 33.2s	remaining: 1m 24s
141:	learn: 0.2275933	total: 33.5s	remaining: 1m 24s
142:	learn: 0.2275274	total: 33.8s	remaining: 1m 24s
143:	learn: 0.2273083	total: 34.2s	remaining: 1m 24s
144:	learn: 0.2271562	total: 34.4s	remaining: 1m 24s
145:	learn: 0.2270716	total: 34.7s	remaining: 1m 24s
146:	learn: 0.2269531	total: 35s	remaining: 1m 24s
147:	learn: 0.2268268	total: 35.3s	remaining: 1m 23s
148:	learn: 0.2267424	total: 35.6s	remaining: 1m 23s
149:	learn: 0.2266879	total: 35.9s	remaining: 1m 23s
150:	learn: 0.2265696	total: 36.1s	remaining: 1m 23s
151:	learn: 0.2265259	total: 36.4s	remaining: 1m 23s
152:	learn: 0.2263694	total: 36.7s	remaining: 1m 23s
153:	learn: 0.2261586	total: 36.9s	remaining: 1m 23s
154:	learn: 0.2260139	total: 37.2s	remaining: 1m 22s
155:	learn: 0.2259206	total: 37.5s	remaining: 1m 22s
156:	learn: 0.2258713	total: 37.8s	remaining: 1m 22s
157:	learn: 0.2257375	total: 38.1s	remaining: 1m 22s
158:	learn: 0.2257128	total: 38.4s	remaining: 1m 22s
159:	learn: 0.2255219	total: 38.7s	remaining: 1m 22s
160:	learn: 0.2254311	total: 39s	remaining: 1m 22s
161:	learn: 0.2253787	total: 39.2s	remaining: 1m 21s
162:	learn: 0.2253417	total: 39.5s	remaining: 1m 21s
163:	learn: 0.2252134	total: 39.8s	remaining: 1m 21s
164:	learn: 0.2251855	total: 40.1s	remaining: 1m 21s

165:	learn: 0.2251278	total: 40.4s	remaining: 1m 21s
166:	learn: 0.2250625	total: 40.7s	remaining: 1m 21s
167:	learn: 0.2250184	total: 41s	remaining: 1m 20s
168:	learn: 0.2249275	total: 41.2s	remaining: 1m 20s
169:	learn: 0.2249094	total: 41.5s	remaining: 1m 20s
170:	learn: 0.2247985	total: 41.8s	remaining: 1m 20s
171:	learn: 0.2246951	total: 42s	remaining: 1m 20s
172:	learn: 0.2245989	total: 42.3s	remaining: 1m 19s
173:	learn: 0.2244039	total: 42.6s	remaining: 1m 19s
174:	learn: 0.2243128	total: 42.8s	remaining: 1m 19s
175:	learn: 0.2242414	total: 43s	remaining: 1m 19s
176:	learn: 0.2241579	total: 43.2s	remaining: 1m 18s
177:	learn: 0.2241136	total: 43.4s	remaining: 1m 18s
178:	learn: 0.2239599	total: 43.6s	remaining: 1m 18s
179:	learn: 0.2237894	total: 43.8s	remaining: 1m 17s
180:	learn: 0.2237310	total: 44s	remaining: 1m 17s
181:	learn: 0.2232923	total: 44.2s	remaining: 1m 17s
182:	learn: 0.2231983	total: 44.4s	remaining: 1m 16s
183:	learn: 0.2230293	total: 44.7s	remaining: 1m 16s
184:	learn: 0.2228738	total: 44.9s	remaining: 1m 16s
185:	learn: 0.2228106	total: 45.1s	remaining: 1m 16s
186:	learn: 0.2226743	total: 45.4s	remaining: 1m 16s
187:	learn: 0.2226213	total: 45.7s	remaining: 1m 15s
188:	learn: 0.2224951	total: 46s	remaining: 1m 15s
189:	learn: 0.2224263	total: 46.2s	remaining: 1m 15s
190:	learn: 0.2223571	total: 46.5s	remaining: 1m 15s
191:	learn: 0.2222909	total: 46.8s	remaining: 1m 15s
192:	learn: 0.2222453	total: 47s	remaining: 1m 14s
193:	learn: 0.2222226	total: 47.3s	remaining: 1m 14s
194:	learn: 0.2220289	total: 47.6s	remaining: 1m 14s
195:	learn: 0.2219925	total: 47.9s	remaining: 1m 14s
196:	learn: 0.2218544	total: 48.2s	remaining: 1m 14s
197:	learn: 0.2218151	total: 48.5s	remaining: 1m 13s
198:	learn: 0.2216913	total: 48.8s	remaining: 1m 13s
199:	learn: 0.2215859	total: 49.1s	remaining: 1m 13s
200:	learn: 0.2214397	total: 49.4s	remaining: 1m 13s
201:	learn: 0.2208435	total: 49.7s	remaining: 1m 13s
202:	learn: 0.2208086	total: 50s	remaining: 1m 13s
203:	learn: 0.2207785	total: 50.3s	remaining: 1m 12s
204:	learn: 0.2206640	total: 50.6s	remaining: 1m 12s
205:	learn: 0.2206234	total: 50.9s	remaining: 1m 12s
206:	learn: 0.2205939	total: 51.1s	remaining: 1m 12s
207:	learn: 0.2205099	total: 51.4s	remaining: 1m 12s
208:	learn: 0.2204624	total: 51.7s	remaining: 1m 11s
209:	learn: 0.2203492	total: 52s	remaining: 1m 11s
210:	learn: 0.2203182	total: 52.3s	remaining: 1m 11s
211:	learn: 0.2202599	total: 52.5s	remaining: 1m 11s
212:	learn: 0.2201831	total: 52.8s	remaining: 1m 11s

213:	learn: 0.2200757	total: 53.1s	remaining: 1m 10s
214:	learn: 0.2199931	total: 53.4s	remaining: 1m 10s
215:	learn: 0.2199212	total: 53.7s	remaining: 1m 10s
216:	learn: 0.2199104	total: 54s	remaining: 1m 10s
217:	learn: 0.2197768	total: 54.3s	remaining: 1m 10s
218:	learn: 0.2197025	total: 54.7s	remaining: 1m 10s
219:	learn: 0.2196754	total: 55s	remaining: 1m 9s
220:	learn: 0.2195714	total: 55.2s	remaining: 1m 9s
221:	learn: 0.2195255	total: 55.4s	remaining: 1m 9s
222:	learn: 0.2195027	total: 55.7s	remaining: 1m 9s
223:	learn: 0.2194551	total: 55.8s	remaining: 1m 8s
224:	learn: 0.2193585	total: 56s	remaining: 1m 8s
225:	learn: 0.2193048	total: 56.2s	remaining: 1m 8s
226:	learn: 0.2192226	total: 56.4s	remaining: 1m 7s
227:	learn: 0.2192147	total: 56.5s	remaining: 1m 7s
228:	learn: 0.2191462	total: 56.7s	remaining: 1m 7s
229:	learn: 0.2189653	total: 56.9s	remaining: 1m 6s
230:	learn: 0.2186902	total: 57.1s	remaining: 1m 6s
231:	learn: 0.2184474	total: 57.3s	remaining: 1m 6s
232:	learn: 0.2183584	total: 57.5s	remaining: 1m 5s
233:	learn: 0.2182932	total: 57.7s	remaining: 1m 5s
234:	learn: 0.2181838	total: 57.9s	remaining: 1m 5s
235:	learn: 0.2181500	total: 58.1s	remaining: 1m 5s
236:	learn: 0.2180950	total: 58.4s	remaining: 1m 4s
237:	learn: 0.2179905	total: 58.7s	remaining: 1m 4s
238:	learn: 0.2179400	total: 59s	remaining: 1m 4s
239:	learn: 0.2179055	total: 59.3s	remaining: 1m 4s
240:	learn: 0.2178233	total: 59.6s	remaining: 1m 4s
241:	learn: 0.2177756	total: 59.8s	remaining: 1m 3s
242:	learn: 0.2177167	total: 1m	remaining: 1m 3s
243:	learn: 0.2176494	total: 1m	remaining: 1m 3s
244:	learn: 0.2175713	total: 1m	remaining: 1m 3s
245:	learn: 0.2175047	total: 1m	remaining: 1m 2s
246:	learn: 0.2173983	total: 1m 1s	remaining: 1m 2s
247:	learn: 0.2173623	total: 1m 1s	remaining: 1m 2s
248:	learn: 0.2172326	total: 1m 1s	remaining: 1m 2s
249:	learn: 0.2172074	total: 1m 2s	remaining: 1m 2s
250:	learn: 0.2171697	total: 1m 2s	remaining: 1m 2s
251:	learn: 0.2171500	total: 1m 2s	remaining: 1m 1s
252:	learn: 0.2171047	total: 1m 3s	remaining: 1m 1s
253:	learn: 0.2169455	total: 1m 3s	remaining: 1m 1s
254:	learn: 0.2169057	total: 1m 3s	remaining: 1m 1s
255:	learn: 0.2168152	total: 1m 3s	remaining: 1m
256:	learn: 0.2166846	total: 1m 4s	remaining: 1m
257:	learn: 0.2165891	total: 1m 4s	remaining: 1m
258:	learn: 0.2165253	total: 1m 4s	remaining: 1m
259:	learn: 0.2164089	total: 1m 5s	remaining: 1m
260:	learn: 0.2163932	total: 1m 5s	remaining: 59.8s

261:	learn: 0.2162534	total: 1m 5s	remaining: 59.6s
262:	learn: 0.2161636	total: 1m 5s	remaining: 59.4s
263:	learn: 0.2161313	total: 1m 6s	remaining: 59.2s
264:	learn: 0.2160301	total: 1m 6s	remaining: 59s
265:	learn: 0.2159240	total: 1m 6s	remaining: 58.8s
266:	learn: 0.2158520	total: 1m 7s	remaining: 58.6s
267:	learn: 0.2157998	total: 1m 7s	remaining: 58.3s
268:	learn: 0.2157918	total: 1m 7s	remaining: 58.1s
269:	learn: 0.2157130	total: 1m 8s	remaining: 58s
270:	learn: 0.2156822	total: 1m 8s	remaining: 57.8s
271:	learn: 0.2154768	total: 1m 8s	remaining: 57.6s
272:	learn: 0.2153393	total: 1m 9s	remaining: 57.4s
273:	learn: 0.2153000	total: 1m 9s	remaining: 57.1s
274:	learn: 0.2152257	total: 1m 9s	remaining: 56.9s
275:	learn: 0.2151997	total: 1m 9s	remaining: 56.7s
276:	learn: 0.2151186	total: 1m 10s	remaining: 56.5s
277:	learn: 0.2151088	total: 1m 10s	remaining: 56.3s
278:	learn: 0.2150216	total: 1m 10s	remaining: 56.1s
279:	learn: 0.2149015	total: 1m 11s	remaining: 55.9s
280:	learn: 0.2147813	total: 1m 11s	remaining: 55.6s
281:	learn: 0.2147530	total: 1m 11s	remaining: 55.4s
282:	learn: 0.2147064	total: 1m 11s	remaining: 55.2s
283:	learn: 0.2146596	total: 1m 12s	remaining: 55s
284:	learn: 0.2146241	total: 1m 12s	remaining: 54.8s
285:	learn: 0.2145388	total: 1m 12s	remaining: 54.5s
286:	learn: 0.2144876	total: 1m 13s	remaining: 54.3s
287:	learn: 0.2144179	total: 1m 13s	remaining: 54.1s
288:	learn: 0.2143844	total: 1m 13s	remaining: 53.8s
289:	learn: 0.2143256	total: 1m 13s	remaining: 53.6s
290:	learn: 0.2142114	total: 1m 14s	remaining: 53.3s
291:	learn: 0.2141377	total: 1m 14s	remaining: 53.1s
292:	learn: 0.2138205	total: 1m 14s	remaining: 52.8s
293:	learn: 0.2137540	total: 1m 14s	remaining: 52.5s
294:	learn: 0.2137246	total: 1m 15s	remaining: 52.3s
295:	learn: 0.2136525	total: 1m 15s	remaining: 52.1s
296:	learn: 0.2135538	total: 1m 15s	remaining: 51.8s
297:	learn: 0.2135184	total: 1m 16s	remaining: 51.6s
298:	learn: 0.2134742	total: 1m 16s	remaining: 51.3s
299:	learn: 0.2134498	total: 1m 16s	remaining: 51.1s
300:	learn: 0.2133616	total: 1m 16s	remaining: 50.8s
301:	learn: 0.2133206	total: 1m 17s	remaining: 50.6s
302:	learn: 0.2132918	total: 1m 17s	remaining: 50.3s
303:	learn: 0.2131168	total: 1m 17s	remaining: 50.1s
304:	learn: 0.2130403	total: 1m 17s	remaining: 49.9s
305:	learn: 0.2130151	total: 1m 18s	remaining: 49.6s
306:	learn: 0.2128587	total: 1m 18s	remaining: 49.4s
307:	learn: 0.2128245	total: 1m 18s	remaining: 49.2s
308:	learn: 0.2127693	total: 1m 19s	remaining: 48.9s

309:	learn: 0.2126986	total: 1m 19s	remaining: 48.7s
310:	learn: 0.2126312	total: 1m 19s	remaining: 48.4s
311:	learn: 0.2125717	total: 1m 19s	remaining: 48.2s
312:	learn: 0.2125171	total: 1m 20s	remaining: 48s
313:	learn: 0.2124614	total: 1m 20s	remaining: 47.7s
314:	learn: 0.2123688	total: 1m 20s	remaining: 47.5s
315:	learn: 0.2123195	total: 1m 21s	remaining: 47.3s
316:	learn: 0.2121895	total: 1m 21s	remaining: 47s
317:	learn: 0.2121302	total: 1m 21s	remaining: 46.8s
318:	learn: 0.2120562	total: 1m 22s	remaining: 46.6s
319:	learn: 0.2119968	total: 1m 22s	remaining: 46.4s
320:	learn: 0.2119279	total: 1m 22s	remaining: 46.2s
321:	learn: 0.2118638	total: 1m 23s	remaining: 45.9s
322:	learn: 0.2118126	total: 1m 23s	remaining: 45.7s
323:	learn: 0.2117204	total: 1m 23s	remaining: 45.4s
324:	learn: 0.2116531	total: 1m 23s	remaining: 45.2s
325:	learn: 0.2115372	total: 1m 24s	remaining: 45s
326:	learn: 0.2114721	total: 1m 24s	remaining: 44.7s
327:	learn: 0.2114429	total: 1m 24s	remaining: 44.5s
328:	learn: 0.2114052	total: 1m 25s	remaining: 44.2s
329:	learn: 0.2113811	total: 1m 25s	remaining: 43.9s
330:	learn: 0.2112886	total: 1m 25s	remaining: 43.7s
331:	learn: 0.2112702	total: 1m 25s	remaining: 43.4s
332:	learn: 0.2112275	total: 1m 26s	remaining: 43.2s
333:	learn: 0.2111740	total: 1m 26s	remaining: 43s
334:	learn: 0.2111150	total: 1m 26s	remaining: 42.7s
335:	learn: 0.2111079	total: 1m 26s	remaining: 42.4s
336:	learn: 0.2110774	total: 1m 27s	remaining: 42.2s
337:	learn: 0.2109922	total: 1m 27s	remaining: 41.9s
338:	learn: 0.2109834	total: 1m 27s	remaining: 41.7s
339:	learn: 0.2109128	total: 1m 28s	remaining: 41.4s
340:	learn: 0.2108983	total: 1m 28s	remaining: 41.2s
341:	learn: 0.2108306	total: 1m 28s	remaining: 41s
342:	learn: 0.2107607	total: 1m 28s	remaining: 40.7s
343:	learn: 0.2107345	total: 1m 29s	remaining: 40.5s
344:	learn: 0.2106529	total: 1m 29s	remaining: 40.2s
345:	learn: 0.2105997	total: 1m 29s	remaining: 40s
346:	learn: 0.2105558	total: 1m 30s	remaining: 39.7s
347:	learn: 0.2105321	total: 1m 30s	remaining: 39.4s
348:	learn: 0.2104674	total: 1m 30s	remaining: 39.2s
349:	learn: 0.2103951	total: 1m 30s	remaining: 38.9s
350:	learn: 0.2103098	total: 1m 31s	remaining: 38.6s
351:	learn: 0.2102664	total: 1m 31s	remaining: 38.4s
352:	learn: 0.2101085	total: 1m 31s	remaining: 38.1s
353:	learn: 0.2100625	total: 1m 31s	remaining: 37.9s
354:	learn: 0.2100429	total: 1m 32s	remaining: 37.6s
355:	learn: 0.2100059	total: 1m 32s	remaining: 37.4s
356:	learn: 0.2099393	total: 1m 32s	remaining: 37.1s

357:	learn: 0.2098305	total: 1m 32s	remaining: 36.9s
358:	learn: 0.2098087	total: 1m 33s	remaining: 36.6s
359:	learn: 0.2097343	total: 1m 33s	remaining: 36.4s
360:	learn: 0.2096413	total: 1m 33s	remaining: 36.1s
361:	learn: 0.2095261	total: 1m 34s	remaining: 35.9s
362:	learn: 0.2094507	total: 1m 34s	remaining: 35.7s
363:	learn: 0.2093849	total: 1m 34s	remaining: 35.4s
364:	learn: 0.2093256	total: 1m 35s	remaining: 35.2s
365:	learn: 0.2092040	total: 1m 35s	remaining: 34.9s
366:	learn: 0.2091910	total: 1m 35s	remaining: 34.7s
367:	learn: 0.2091387	total: 1m 35s	remaining: 34.4s
368:	learn: 0.2090904	total: 1m 36s	remaining: 34.2s
369:	learn: 0.2090488	total: 1m 36s	remaining: 33.9s
370:	learn: 0.2090032	total: 1m 36s	remaining: 33.7s
371:	learn: 0.2089325	total: 1m 37s	remaining: 33.4s
372:	learn: 0.2088805	total: 1m 37s	remaining: 33.1s
373:	learn: 0.2087984	total: 1m 37s	remaining: 32.9s
374:	learn: 0.2087655	total: 1m 37s	remaining: 32.6s
375:	learn: 0.2086805	total: 1m 38s	remaining: 32.4s
376:	learn: 0.2086333	total: 1m 38s	remaining: 32.1s
377:	learn: 0.2084922	total: 1m 38s	remaining: 31.9s
378:	learn: 0.2084468	total: 1m 39s	remaining: 31.6s
379:	learn: 0.2083749	total: 1m 39s	remaining: 31.4s
380:	learn: 0.2083319	total: 1m 39s	remaining: 31.1s
381:	learn: 0.2082680	total: 1m 39s	remaining: 30.9s
382:	learn: 0.2081391	total: 1m 40s	remaining: 30.6s
383:	learn: 0.2080956	total: 1m 40s	remaining: 30.3s
384:	learn: 0.2080317	total: 1m 40s	remaining: 30.1s
385:	learn: 0.2079746	total: 1m 41s	remaining: 29.8s
386:	learn: 0.2079306	total: 1m 41s	remaining: 29.6s
387:	learn: 0.2078404	total: 1m 41s	remaining: 29.3s
388:	learn: 0.2078053	total: 1m 41s	remaining: 29.1s
389:	learn: 0.2077915	total: 1m 42s	remaining: 28.8s
390:	learn: 0.2076434	total: 1m 42s	remaining: 28.6s
391:	learn: 0.2075710	total: 1m 42s	remaining: 28.3s
392:	learn: 0.2075377	total: 1m 42s	remaining: 28s
393:	learn: 0.2073909	total: 1m 43s	remaining: 27.8s
394:	learn: 0.2073091	total: 1m 43s	remaining: 27.5s
395:	learn: 0.2072451	total: 1m 43s	remaining: 27.3s
396:	learn: 0.2071749	total: 1m 44s	remaining: 27s
397:	learn: 0.2070319	total: 1m 44s	remaining: 26.8s
398:	learn: 0.2069734	total: 1m 44s	remaining: 26.5s
399:	learn: 0.2068672	total: 1m 44s	remaining: 26.2s
400:	learn: 0.2067809	total: 1m 45s	remaining: 26s
401:	learn: 0.2067243	total: 1m 45s	remaining: 25.7s
402:	learn: 0.2065545	total: 1m 45s	remaining: 25.5s
403:	learn: 0.2064846	total: 1m 46s	remaining: 25.2s
404:	learn: 0.2063912	total: 1m 46s	remaining: 24.9s

405:	learn: 0.2063680	total: 1m 46s	remaining: 24.7s
406:	learn: 0.2063243	total: 1m 46s	remaining: 24.4s
407:	learn: 0.2062218	total: 1m 47s	remaining: 24.2s
408:	learn: 0.2061241	total: 1m 47s	remaining: 23.9s
409:	learn: 0.2060026	total: 1m 47s	remaining: 23.6s
410:	learn: 0.2059800	total: 1m 47s	remaining: 23.4s
411:	learn: 0.2059446	total: 1m 48s	remaining: 23.1s
412:	learn: 0.2058472	total: 1m 48s	remaining: 22.9s
413:	learn: 0.2057889	total: 1m 48s	remaining: 22.6s
414:	learn: 0.2057653	total: 1m 49s	remaining: 22.3s
415:	learn: 0.2057342	total: 1m 49s	remaining: 22.1s
416:	learn: 0.2056363	total: 1m 49s	remaining: 21.8s
417:	learn: 0.2055679	total: 1m 49s	remaining: 21.6s
418:	learn: 0.2055061	total: 1m 50s	remaining: 21.3s
419:	learn: 0.2054294	total: 1m 50s	remaining: 21.1s
420:	learn: 0.2053388	total: 1m 50s	remaining: 20.8s
421:	learn: 0.2052784	total: 1m 51s	remaining: 20.5s
422:	learn: 0.2052701	total: 1m 51s	remaining: 20.3s
423:	learn: 0.2052549	total: 1m 51s	remaining: 20s
424:	learn: 0.2052177	total: 1m 51s	remaining: 19.8s
425:	learn: 0.2051234	total: 1m 52s	remaining: 19.5s
426:	learn: 0.2050671	total: 1m 52s	remaining: 19.2s
427:	learn: 0.2049612	total: 1m 52s	remaining: 19s
428:	learn: 0.2048298	total: 1m 52s	remaining: 18.7s
429:	learn: 0.2047282	total: 1m 53s	remaining: 18.4s
430:	learn: 0.2046553	total: 1m 53s	remaining: 18.2s
431:	learn: 0.2045988	total: 1m 53s	remaining: 17.9s
432:	learn: 0.2045442	total: 1m 54s	remaining: 17.7s
433:	learn: 0.2044763	total: 1m 54s	remaining: 17.4s
434:	learn: 0.2044280	total: 1m 54s	remaining: 17.1s
435:	learn: 0.2044135	total: 1m 54s	remaining: 16.9s
436:	learn: 0.2043985	total: 1m 55s	remaining: 16.6s
437:	learn: 0.2043363	total: 1m 55s	remaining: 16.4s
438:	learn: 0.2043032	total: 1m 55s	remaining: 16.1s
439:	learn: 0.2042535	total: 1m 56s	remaining: 15.8s
440:	learn: 0.2041183	total: 1m 56s	remaining: 15.6s
441:	learn: 0.2040669	total: 1m 56s	remaining: 15.3s
442:	learn: 0.2040462	total: 1m 56s	remaining: 15s
443:	learn: 0.2039204	total: 1m 57s	remaining: 14.8s
444:	learn: 0.2037464	total: 1m 57s	remaining: 14.5s
445:	learn: 0.2036191	total: 1m 57s	remaining: 14.3s
446:	learn: 0.2035738	total: 1m 58s	remaining: 14s
447:	learn: 0.2034788	total: 1m 58s	remaining: 13.7s
448:	learn: 0.2034382	total: 1m 58s	remaining: 13.5s
449:	learn: 0.2034244	total: 1m 58s	remaining: 13.2s
450:	learn: 0.2033706	total: 1m 59s	remaining: 13s
451:	learn: 0.2032506	total: 1m 59s	remaining: 12.7s
452:	learn: 0.2031701	total: 1m 59s	remaining: 12.4s

453:	learn: 0.2031325	total: 2m	remaining: 12.2s
454:	learn: 0.2030662	total: 2m	remaining: 11.9s
455:	learn: 0.2029886	total: 2m	remaining: 11.6s
456:	learn: 0.2028967	total: 2m	remaining: 11.4s
457:	learn: 0.2028782	total: 2m 1s	remaining: 11.1s
458:	learn: 0.2028635	total: 2m 1s	remaining: 10.9s
459:	learn: 0.2027462	total: 2m 1s	remaining: 10.6s
460:	learn: 0.2026558	total: 2m 2s	remaining: 10.3s
461:	learn: 0.2025848	total: 2m 2s	remaining: 10.1s
462:	learn: 0.2025684	total: 2m 2s	remaining: 9.8s
463:	learn: 0.2025196	total: 2m 2s	remaining: 9.54s
464:	learn: 0.2023978	total: 2m 3s	remaining: 9.27s
465:	learn: 0.2023689	total: 2m 3s	remaining: 9.01s
466:	learn: 0.2023187	total: 2m 3s	remaining: 8.75s
467:	learn: 0.2022835	total: 2m 4s	remaining: 8.48s
468:	learn: 0.2021807	total: 2m 4s	remaining: 8.22s
469:	learn: 0.2020836	total: 2m 4s	remaining: 7.96s
470:	learn: 0.2020433	total: 2m 5s	remaining: 7.7s
471:	learn: 0.2019232	total: 2m 5s	remaining: 7.44s
472:	learn: 0.2018834	total: 2m 5s	remaining: 7.18s
473:	learn: 0.2018430	total: 2m 6s	remaining: 6.91s
474:	learn: 0.2018130	total: 2m 6s	remaining: 6.65s
475:	learn: 0.2017752	total: 2m 6s	remaining: 6.38s
476:	learn: 0.2017289	total: 2m 6s	remaining: 6.12s
477:	learn: 0.2015918	total: 2m 7s	remaining: 5.86s
478:	learn: 0.2015348	total: 2m 7s	remaining: 5.59s
479:	learn: 0.2014388	total: 2m 7s	remaining: 5.32s
480:	learn: 0.2013928	total: 2m 8s	remaining: 5.06s
481:	learn: 0.2013331	total: 2m 8s	remaining: 4.79s
482:	learn: 0.2012318	total: 2m 8s	remaining: 4.53s
483:	learn: 0.2009100	total: 2m 9s	remaining: 4.26s
484:	learn: 0.2008898	total: 2m 9s	remaining: 4s
485:	learn: 0.2007619	total: 2m 9s	remaining: 3.73s
486:	learn: 0.2006932	total: 2m 9s	remaining: 3.47s
487:	learn: 0.2005945	total: 2m 10s	remaining: 3.2s
488:	learn: 0.2005590	total: 2m 10s	remaining: 2.93s
489:	learn: 0.2004667	total: 2m 10s	remaining: 2.67s
490:	learn: 0.2004022	total: 2m 11s	remaining: 2.4s
491:	learn: 0.2001351	total: 2m 11s	remaining: 2.14s
492:	learn: 0.2000302	total: 2m 11s	remaining: 1.87s
493:	learn: 0.1999737	total: 2m 11s	remaining: 1.6s
494:	learn: 0.1998874	total: 2m 12s	remaining: 1.33s
495:	learn: 0.1998031	total: 2m 12s	remaining: 1.07s
496:	learn: 0.1997428	total: 2m 12s	remaining: 802ms
497:	learn: 0.1996197	total: 2m 13s	remaining: 535ms
498:	learn: 0.1995690	total: 2m 13s	remaining: 267ms
499:	learn: 0.1995369	total: 2m 13s	remaining: 0us

Learning rate set to 0.172923

0:	learn: 0.9785620	total: 315ms	remaining: 2m 37s
1:	learn: 0.8930099	total: 647ms	remaining: 2m 41s
2:	learn: 0.8310988	total: 929ms	remaining: 2m 33s
3:	learn: 0.7859451	total: 1.21s	remaining: 2m 29s
4:	learn: 0.6850580	total: 1.53s	remaining: 2m 31s
5:	learn: 0.6106484	total: 1.8s	remaining: 2m 27s
6:	learn: 0.5800236	total: 2.04s	remaining: 2m 23s
7:	learn: 0.5306782	total: 2.33s	remaining: 2m 23s
8:	learn: 0.4907446	total: 2.6s	remaining: 2m 21s
9:	learn: 0.4706794	total: 2.88s	remaining: 2m 21s
10:	learn: 0.4444576	total: 3.15s	remaining: 2m 20s
11:	learn: 0.4337219	total: 3.43s	remaining: 2m 19s
12:	learn: 0.4089730	total: 3.7s	remaining: 2m 18s
13:	learn: 0.3882993	total: 3.95s	remaining: 2m 17s
14:	learn: 0.3733495	total: 4.29s	remaining: 2m 18s
15:	learn: 0.3605458	total: 4.6s	remaining: 2m 19s
16:	learn: 0.3483163	total: 4.87s	remaining: 2m 18s
17:	learn: 0.3396954	total: 5.15s	remaining: 2m 18s
18:	learn: 0.3259238	total: 5.46s	remaining: 2m 18s
19:	learn: 0.3217960	total: 5.76s	remaining: 2m 18s
20:	learn: 0.3192888	total: 6.02s	remaining: 2m 17s
21:	learn: 0.3155650	total: 6.37s	remaining: 2m 18s
22:	learn: 0.3044341	total: 6.67s	remaining: 2m 18s
23:	learn: 0.3016508	total: 6.97s	remaining: 2m 18s
24:	learn: 0.2930460	total: 7.31s	remaining: 2m 18s
25:	learn: 0.2908204	total: 7.59s	remaining: 2m 18s
26:	learn: 0.2835284	total: 7.87s	remaining: 2m 17s
27:	learn: 0.2776734	total: 8.16s	remaining: 2m 17s
28:	learn: 0.2723085	total: 8.44s	remaining: 2m 17s
29:	learn: 0.2677479	total: 8.74s	remaining: 2m 16s
30:	learn: 0.2669629	total: 9.03s	remaining: 2m 16s
31:	learn: 0.2664014	total: 9.34s	remaining: 2m 16s
32:	learn: 0.2628172	total: 9.63s	remaining: 2m 16s
33:	learn: 0.2620860	total: 9.92s	remaining: 2m 16s
34:	learn: 0.2578501	total: 10.2s	remaining: 2m 15s
35:	learn: 0.2564221	total: 10.5s	remaining: 2m 14s
36:	learn: 0.2531858	total: 10.8s	remaining: 2m 14s
37:	learn: 0.2527608	total: 11.1s	remaining: 2m 14s
38:	learn: 0.2525242	total: 11.3s	remaining: 2m 13s
39:	learn: 0.2504783	total: 11.6s	remaining: 2m 13s
40:	learn: 0.2500452	total: 11.9s	remaining: 2m 13s
41:	learn: 0.2497231	total: 12.2s	remaining: 2m 13s
42:	learn: 0.2471069	total: 12.5s	remaining: 2m 12s
43:	learn: 0.2468439	total: 12.8s	remaining: 2m 12s
44:	learn: 0.2455985	total: 13.1s	remaining: 2m 11s
45:	learn: 0.2452159	total: 13.4s	remaining: 2m 12s
46:	learn: 0.2429449	total: 13.7s	remaining: 2m 12s
47:	learn: 0.2410610	total: 14.1s	remaining: 2m 12s

48:	learn: 0.2408260	total: 14.3s	remaining: 2m 12s
49:	learn: 0.2403741	total: 14.7s	remaining: 2m 12s
50:	learn: 0.2400196	total: 15s	remaining: 2m 11s
51:	learn: 0.2398071	total: 15.3s	remaining: 2m 11s
52:	learn: 0.2394964	total: 15.6s	remaining: 2m 11s
53:	learn: 0.2393229	total: 16s	remaining: 2m 12s
54:	learn: 0.2381942	total: 16.3s	remaining: 2m 12s
55:	learn: 0.2379910	total: 16.6s	remaining: 2m 11s
56:	learn: 0.2378145	total: 16.9s	remaining: 2m 11s
57:	learn: 0.2374874	total: 17.2s	remaining: 2m 10s
58:	learn: 0.2372999	total: 17.5s	remaining: 2m 10s
59:	learn: 0.2361864	total: 17.8s	remaining: 2m 10s
60:	learn: 0.2359451	total: 18s	remaining: 2m 9s
61:	learn: 0.2358046	total: 18.4s	remaining: 2m 9s
62:	learn: 0.2355980	total: 18.6s	remaining: 2m 9s
63:	learn: 0.2353938	total: 18.9s	remaining: 2m 8s
64:	learn: 0.2351035	total: 19.2s	remaining: 2m 8s
65:	learn: 0.2349761	total: 19.4s	remaining: 2m 7s
66:	learn: 0.2345961	total: 19.7s	remaining: 2m 7s
67:	learn: 0.2343218	total: 20s	remaining: 2m 7s
68:	learn: 0.2333170	total: 20.3s	remaining: 2m 6s
69:	learn: 0.2324319	total: 20.6s	remaining: 2m 6s
70:	learn: 0.2321657	total: 20.9s	remaining: 2m 6s
71:	learn: 0.2307703	total: 21.3s	remaining: 2m 6s
72:	learn: 0.2306045	total: 21.6s	remaining: 2m 6s
73:	learn: 0.2304404	total: 21.8s	remaining: 2m 5s
74:	learn: 0.2302863	total: 22.1s	remaining: 2m 5s
75:	learn: 0.2299252	total: 22.4s	remaining: 2m 4s
76:	learn: 0.2295814	total: 22.7s	remaining: 2m 4s
77:	learn: 0.2295050	total: 23s	remaining: 2m 4s
78:	learn: 0.2293573	total: 23.2s	remaining: 2m 3s
79:	learn: 0.2291486	total: 23.6s	remaining: 2m 3s
80:	learn: 0.2289388	total: 23.9s	remaining: 2m 3s
81:	learn: 0.2288395	total: 24.2s	remaining: 2m 3s
82:	learn: 0.2287395	total: 24.5s	remaining: 2m 3s
83:	learn: 0.2286150	total: 24.8s	remaining: 2m 2s
84:	learn: 0.2283963	total: 25.1s	remaining: 2m 2s
85:	learn: 0.2282523	total: 25.4s	remaining: 2m 2s
86:	learn: 0.2277021	total: 25.7s	remaining: 2m 2s
87:	learn: 0.2275493	total: 26.1s	remaining: 2m 1s
88:	learn: 0.2273526	total: 26.4s	remaining: 2m 1s
89:	learn: 0.2272213	total: 26.7s	remaining: 2m 1s
90:	learn: 0.2270133	total: 26.9s	remaining: 2m 1s
91:	learn: 0.2268997	total: 27.2s	remaining: 2m
92:	learn: 0.2260903	total: 27.5s	remaining: 2m
93:	learn: 0.2259549	total: 27.8s	remaining: 2m
94:	learn: 0.2257864	total: 28.1s	remaining: 1m 59s
95:	learn: 0.2255919	total: 28.3s	remaining: 1m 59s

96:	learn: 0.2255036	total: 28.6s	remaining: 1m 58s
97:	learn: 0.2254188	total: 28.8s	remaining: 1m 58s
98:	learn: 0.2253505	total: 29.1s	remaining: 1m 57s
99:	learn: 0.2251893	total: 29.4s	remaining: 1m 57s
100:	learn: 0.2251385	total: 29.7s	remaining: 1m 57s
101:	learn: 0.2250068	total: 30s	remaining: 1m 57s
102:	learn: 0.2248523	total: 30.3s	remaining: 1m 56s
103:	learn: 0.2248158	total: 30.6s	remaining: 1m 56s
104:	learn: 0.2246988	total: 30.9s	remaining: 1m 56s
105:	learn: 0.2245937	total: 31.1s	remaining: 1m 55s
106:	learn: 0.2244090	total: 31.4s	remaining: 1m 55s
107:	learn: 0.2236450	total: 31.8s	remaining: 1m 55s
108:	learn: 0.2235669	total: 32.1s	remaining: 1m 55s
109:	learn: 0.2234876	total: 32.4s	remaining: 1m 54s
110:	learn: 0.2233068	total: 32.7s	remaining: 1m 54s
111:	learn: 0.2232376	total: 32.9s	remaining: 1m 54s
112:	learn: 0.2231517	total: 33.2s	remaining: 1m 53s
113:	learn: 0.2230493	total: 33.6s	remaining: 1m 53s
114:	learn: 0.2225359	total: 33.9s	remaining: 1m 53s
115:	learn: 0.2224151	total: 34.2s	remaining: 1m 53s
116:	learn: 0.2223596	total: 34.6s	remaining: 1m 53s
117:	learn: 0.2222920	total: 34.9s	remaining: 1m 52s
118:	learn: 0.2221111	total: 35.1s	remaining: 1m 52s
119:	learn: 0.2219812	total: 35.4s	remaining: 1m 52s
120:	learn: 0.2218870	total: 35.7s	remaining: 1m 51s
121:	learn: 0.2217042	total: 36s	remaining: 1m 51s
122:	learn: 0.2215063	total: 36.3s	remaining: 1m 51s
123:	learn: 0.2214284	total: 36.6s	remaining: 1m 50s
124:	learn: 0.2213598	total: 36.9s	remaining: 1m 50s
125:	learn: 0.2212246	total: 37.2s	remaining: 1m 50s
126:	learn: 0.2211376	total: 37.4s	remaining: 1m 49s
127:	learn: 0.2210661	total: 37.7s	remaining: 1m 49s
128:	learn: 0.2209273	total: 38s	remaining: 1m 49s
129:	learn: 0.2208307	total: 38.2s	remaining: 1m 48s
130:	learn: 0.2207558	total: 38.5s	remaining: 1m 48s
131:	learn: 0.2206848	total: 38.8s	remaining: 1m 48s
132:	learn: 0.2204881	total: 39.1s	remaining: 1m 47s
133:	learn: 0.2203051	total: 39.4s	remaining: 1m 47s
134:	learn: 0.2202488	total: 39.7s	remaining: 1m 47s
135:	learn: 0.2202005	total: 40s	remaining: 1m 47s
136:	learn: 0.2201425	total: 40.3s	remaining: 1m 46s
137:	learn: 0.2200773	total: 40.6s	remaining: 1m 46s
138:	learn: 0.2200140	total: 40.9s	remaining: 1m 46s
139:	learn: 0.2199026	total: 41.1s	remaining: 1m 45s
140:	learn: 0.2198112	total: 41.4s	remaining: 1m 45s
141:	learn: 0.2197807	total: 41.6s	remaining: 1m 44s
142:	learn: 0.2197080	total: 41.9s	remaining: 1m 44s
143:	learn: 0.2196303	total: 42.2s	remaining: 1m 44s

144:	learn: 0.2195432	total: 42.5s	remaining: 1m 44s
145:	learn: 0.2194366	total: 42.8s	remaining: 1m 43s
146:	learn: 0.2193242	total: 43s	remaining: 1m 43s
147:	learn: 0.2192371	total: 43.4s	remaining: 1m 43s
148:	learn: 0.2188923	total: 43.7s	remaining: 1m 42s
149:	learn: 0.2188431	total: 44s	remaining: 1m 42s
150:	learn: 0.2187562	total: 44.3s	remaining: 1m 42s
151:	learn: 0.2186999	total: 44.6s	remaining: 1m 42s
152:	learn: 0.2186504	total: 44.9s	remaining: 1m 41s
153:	learn: 0.2185455	total: 45.2s	remaining: 1m 41s
154:	learn: 0.2183631	total: 45.6s	remaining: 1m 41s
155:	learn: 0.2182896	total: 46s	remaining: 1m 41s
156:	learn: 0.2182317	total: 46.2s	remaining: 1m 41s
157:	learn: 0.2180702	total: 46.6s	remaining: 1m 40s
158:	learn: 0.2179798	total: 46.8s	remaining: 1m 40s
159:	learn: 0.2178839	total: 47.1s	remaining: 1m 40s
160:	learn: 0.2176896	total: 47.4s	remaining: 1m 39s
161:	learn: 0.2174977	total: 47.7s	remaining: 1m 39s
162:	learn: 0.2174379	total: 48s	remaining: 1m 39s
163:	learn: 0.2173215	total: 48.3s	remaining: 1m 38s
164:	learn: 0.2171270	total: 48.6s	remaining: 1m 38s
165:	learn: 0.2170667	total: 48.9s	remaining: 1m 38s
166:	learn: 0.2170084	total: 49.2s	remaining: 1m 38s
167:	learn: 0.2169212	total: 49.5s	remaining: 1m 37s
168:	learn: 0.2168876	total: 49.8s	remaining: 1m 37s
169:	learn: 0.2168151	total: 50s	remaining: 1m 37s
170:	learn: 0.2166200	total: 50.4s	remaining: 1m 36s
171:	learn: 0.2165489	total: 50.6s	remaining: 1m 36s
172:	learn: 0.2165025	total: 50.9s	remaining: 1m 36s
173:	learn: 0.2162605	total: 51.2s	remaining: 1m 35s
174:	learn: 0.2161720	total: 51.4s	remaining: 1m 35s
175:	learn: 0.2160397	total: 51.7s	remaining: 1m 35s
176:	learn: 0.2159809	total: 52.2s	remaining: 1m 35s
177:	learn: 0.2158820	total: 52.4s	remaining: 1m 34s
178:	learn: 0.2157583	total: 52.7s	remaining: 1m 34s
179:	learn: 0.2156940	total: 53s	remaining: 1m 34s
180:	learn: 0.2156448	total: 53.3s	remaining: 1m 33s
181:	learn: 0.2155504	total: 53.6s	remaining: 1m 33s
182:	learn: 0.2154422	total: 53.9s	remaining: 1m 33s
183:	learn: 0.2153489	total: 54.2s	remaining: 1m 33s
184:	learn: 0.2153277	total: 54.5s	remaining: 1m 32s
185:	learn: 0.2152452	total: 54.7s	remaining: 1m 32s
186:	learn: 0.2151682	total: 55s	remaining: 1m 32s
187:	learn: 0.2149811	total: 55.3s	remaining: 1m 31s
188:	learn: 0.2148482	total: 55.6s	remaining: 1m 31s
189:	learn: 0.2146948	total: 55.9s	remaining: 1m 31s
190:	learn: 0.2145892	total: 56.2s	remaining: 1m 30s
191:	learn: 0.2143885	total: 56.5s	remaining: 1m 30s

192:	learn: 0.2142975	total: 56.8s	remaining: 1m 30s
193:	learn: 0.2141975	total: 57.1s	remaining: 1m 30s
194:	learn: 0.2141594	total: 57.4s	remaining: 1m 29s
195:	learn: 0.2140869	total: 57.6s	remaining: 1m 29s
196:	learn: 0.2138765	total: 57.9s	remaining: 1m 29s
197:	learn: 0.2138144	total: 58.2s	remaining: 1m 28s
198:	learn: 0.2136840	total: 58.5s	remaining: 1m 28s
199:	learn: 0.2135537	total: 58.8s	remaining: 1m 28s
200:	learn: 0.2135426	total: 59s	remaining: 1m 27s
201:	learn: 0.2134500	total: 59.3s	remaining: 1m 27s
202:	learn: 0.2134146	total: 59.6s	remaining: 1m 27s
203:	learn: 0.2132779	total: 59.9s	remaining: 1m 26s
204:	learn: 0.2132641	total: 1m	remaining: 1m 26s
205:	learn: 0.2131537	total: 1m	remaining: 1m 26s
206:	learn: 0.2130515	total: 1m	remaining: 1m 26s
207:	learn: 0.2129948	total: 1m 1s	remaining: 1m 25s
208:	learn: 0.2125694	total: 1m 1s	remaining: 1m 25s
209:	learn: 0.2125392	total: 1m 1s	remaining: 1m 25s
210:	learn: 0.2123586	total: 1m 1s	remaining: 1m 24s
211:	learn: 0.2122581	total: 1m 2s	remaining: 1m 24s
212:	learn: 0.2122327	total: 1m 2s	remaining: 1m 24s
213:	learn: 0.2121835	total: 1m 2s	remaining: 1m 24s
214:	learn: 0.2121325	total: 1m 3s	remaining: 1m 23s
215:	learn: 0.2120565	total: 1m 3s	remaining: 1m 23s
216:	learn: 0.2120358	total: 1m 3s	remaining: 1m 23s
217:	learn: 0.2119794	total: 1m 4s	remaining: 1m 22s
218:	learn: 0.2118949	total: 1m 4s	remaining: 1m 22s
219:	learn: 0.2117070	total: 1m 4s	remaining: 1m 22s
220:	learn: 0.2116415	total: 1m 4s	remaining: 1m 21s
221:	learn: 0.2115966	total: 1m 5s	remaining: 1m 21s
222:	learn: 0.2115436	total: 1m 5s	remaining: 1m 21s
223:	learn: 0.2114462	total: 1m 5s	remaining: 1m 21s
224:	learn: 0.2113103	total: 1m 6s	remaining: 1m 20s
225:	learn: 0.2112691	total: 1m 6s	remaining: 1m 20s
226:	learn: 0.2112210	total: 1m 6s	remaining: 1m 20s
227:	learn: 0.2111678	total: 1m 6s	remaining: 1m 19s
228:	learn: 0.2111431	total: 1m 7s	remaining: 1m 19s
229:	learn: 0.2109218	total: 1m 7s	remaining: 1m 19s
230:	learn: 0.2107756	total: 1m 7s	remaining: 1m 19s
231:	learn: 0.2107544	total: 1m 8s	remaining: 1m 18s
232:	learn: 0.2106956	total: 1m 8s	remaining: 1m 18s
233:	learn: 0.2106306	total: 1m 8s	remaining: 1m 18s
234:	learn: 0.2105871	total: 1m 9s	remaining: 1m 17s
235:	learn: 0.2105490	total: 1m 9s	remaining: 1m 17s
236:	learn: 0.2105094	total: 1m 9s	remaining: 1m 17s
237:	learn: 0.2103937	total: 1m 9s	remaining: 1m 17s
238:	learn: 0.2102855	total: 1m 10s	remaining: 1m 16s
239:	learn: 0.2102419	total: 1m 10s	remaining: 1m 16s

240:	learn: 0.2102078	total: 1m 10s	remaining: 1m 16s
241:	learn: 0.2100756	total: 1m 11s	remaining: 1m 15s
242:	learn: 0.2099678	total: 1m 11s	remaining: 1m 15s
243:	learn: 0.2098897	total: 1m 11s	remaining: 1m 15s
244:	learn: 0.2098663	total: 1m 11s	remaining: 1m 14s
245:	learn: 0.2098065	total: 1m 12s	remaining: 1m 14s
246:	learn: 0.2096895	total: 1m 12s	remaining: 1m 14s
247:	learn: 0.2095848	total: 1m 12s	remaining: 1m 14s
248:	learn: 0.2094981	total: 1m 13s	remaining: 1m 13s
249:	learn: 0.2094557	total: 1m 13s	remaining: 1m 13s
250:	learn: 0.2094099	total: 1m 13s	remaining: 1m 13s
251:	learn: 0.2093019	total: 1m 14s	remaining: 1m 12s
252:	learn: 0.2092396	total: 1m 14s	remaining: 1m 12s
253:	learn: 0.2091937	total: 1m 14s	remaining: 1m 12s
254:	learn: 0.2090823	total: 1m 14s	remaining: 1m 11s
255:	learn: 0.2089278	total: 1m 15s	remaining: 1m 11s
256:	learn: 0.2088539	total: 1m 15s	remaining: 1m 11s
257:	learn: 0.2088113	total: 1m 15s	remaining: 1m 11s
258:	learn: 0.2087468	total: 1m 16s	remaining: 1m 10s
259:	learn: 0.2087185	total: 1m 16s	remaining: 1m 10s
260:	learn: 0.2086713	total: 1m 16s	remaining: 1m 10s
261:	learn: 0.2085531	total: 1m 16s	remaining: 1m 9s
262:	learn: 0.2085246	total: 1m 17s	remaining: 1m 9s
263:	learn: 0.2084270	total: 1m 17s	remaining: 1m 9s
264:	learn: 0.2083364	total: 1m 17s	remaining: 1m 8s
265:	learn: 0.2080777	total: 1m 18s	remaining: 1m 8s
266:	learn: 0.2080342	total: 1m 18s	remaining: 1m 8s
267:	learn: 0.2079942	total: 1m 18s	remaining: 1m 8s
268:	learn: 0.2078619	total: 1m 18s	remaining: 1m 7s
269:	learn: 0.2078041	total: 1m 19s	remaining: 1m 7s
270:	learn: 0.2077638	total: 1m 19s	remaining: 1m 7s
271:	learn: 0.2076497	total: 1m 19s	remaining: 1m 6s
272:	learn: 0.2076148	total: 1m 20s	remaining: 1m 6s
273:	learn: 0.2075451	total: 1m 20s	remaining: 1m 6s
274:	learn: 0.2074913	total: 1m 20s	remaining: 1m 6s
275:	learn: 0.2074038	total: 1m 21s	remaining: 1m 5s
276:	learn: 0.2072939	total: 1m 21s	remaining: 1m 5s
277:	learn: 0.2072786	total: 1m 21s	remaining: 1m 5s
278:	learn: 0.2072475	total: 1m 22s	remaining: 1m 5s
279:	learn: 0.2071690	total: 1m 22s	remaining: 1m 4s
280:	learn: 0.2070966	total: 1m 22s	remaining: 1m 4s
281:	learn: 0.2070505	total: 1m 22s	remaining: 1m 4s
282:	learn: 0.2069976	total: 1m 23s	remaining: 1m 3s
283:	learn: 0.2069343	total: 1m 23s	remaining: 1m 3s
284:	learn: 0.2068986	total: 1m 23s	remaining: 1m 3s
285:	learn: 0.2068526	total: 1m 24s	remaining: 1m 2s
286:	learn: 0.2068221	total: 1m 24s	remaining: 1m 2s
287:	learn: 0.2067762	total: 1m 24s	remaining: 1m 2s

288:	learn: 0.2066804	total: 1m 24s	remaining: 1m 1s
289:	learn: 0.2065732	total: 1m 25s	remaining: 1m 1s
290:	learn: 0.2065507	total: 1m 25s	remaining: 1m 1s
291:	learn: 0.2065235	total: 1m 25s	remaining: 1m 1s
292:	learn: 0.2064709	total: 1m 26s	remaining: 1m
293:	learn: 0.2064320	total: 1m 26s	remaining: 1m
294:	learn: 0.2063905	total: 1m 26s	remaining: 1m
295:	learn: 0.2062950	total: 1m 26s	remaining: 59.9s
296:	learn: 0.2061836	total: 1m 27s	remaining: 59.6s
297:	learn: 0.2061493	total: 1m 27s	remaining: 59.3s
298:	learn: 0.2060975	total: 1m 27s	remaining: 59s
299:	learn: 0.2057528	total: 1m 28s	remaining: 58.7s
300:	learn: 0.2056077	total: 1m 28s	remaining: 58.4s
301:	learn: 0.2053957	total: 1m 28s	remaining: 58.1s
302:	learn: 0.2053260	total: 1m 28s	remaining: 57.8s
303:	learn: 0.2052603	total: 1m 29s	remaining: 57.5s
304:	learn: 0.2049736	total: 1m 29s	remaining: 57.2s
305:	learn: 0.2048816	total: 1m 29s	remaining: 57s
306:	learn: 0.2048267	total: 1m 30s	remaining: 56.7s
307:	learn: 0.2046818	total: 1m 30s	remaining: 56.4s
308:	learn: 0.2046016	total: 1m 30s	remaining: 56.1s
309:	learn: 0.2045307	total: 1m 31s	remaining: 55.8s
310:	learn: 0.2045055	total: 1m 31s	remaining: 55.5s
311:	learn: 0.2044577	total: 1m 31s	remaining: 55.2s
312:	learn: 0.2044189	total: 1m 31s	remaining: 54.9s
313:	learn: 0.2043809	total: 1m 32s	remaining: 54.6s
314:	learn: 0.2042758	total: 1m 32s	remaining: 54.3s
315:	learn: 0.2042076	total: 1m 32s	remaining: 54s
316:	learn: 0.2040977	total: 1m 32s	remaining: 53.7s
317:	learn: 0.2040084	total: 1m 33s	remaining: 53.4s
318:	learn: 0.2039787	total: 1m 33s	remaining: 53.1s
319:	learn: 0.2039110	total: 1m 33s	remaining: 52.8s
320:	learn: 0.2038377	total: 1m 34s	remaining: 52.5s
321:	learn: 0.2037585	total: 1m 34s	remaining: 52.2s
322:	learn: 0.2036712	total: 1m 34s	remaining: 51.9s
323:	learn: 0.2036260	total: 1m 35s	remaining: 51.6s
324:	learn: 0.2035263	total: 1m 35s	remaining: 51.3s
325:	learn: 0.2034568	total: 1m 35s	remaining: 51s
326:	learn: 0.2033999	total: 1m 35s	remaining: 50.7s
327:	learn: 0.2033401	total: 1m 36s	remaining: 50.4s
328:	learn: 0.2033046	total: 1m 36s	remaining: 50.1s
329:	learn: 0.2032381	total: 1m 36s	remaining: 49.8s
330:	learn: 0.2031944	total: 1m 37s	remaining: 49.5s
331:	learn: 0.2030582	total: 1m 37s	remaining: 49.3s
332:	learn: 0.2029832	total: 1m 37s	remaining: 49s
333:	learn: 0.2029303	total: 1m 38s	remaining: 48.7s
334:	learn: 0.2029004	total: 1m 38s	remaining: 48.4s
335:	learn: 0.2028255	total: 1m 38s	remaining: 48.1s

336:	learn: 0.2026771	total: 1m 38s	remaining: 47.8s
337:	learn: 0.2026423	total: 1m 39s	remaining: 47.5s
338:	learn: 0.2026051	total: 1m 39s	remaining: 47.2s
339:	learn: 0.2025209	total: 1m 39s	remaining: 47s
340:	learn: 0.2024751	total: 1m 40s	remaining: 46.7s
341:	learn: 0.2024132	total: 1m 40s	remaining: 46.4s
342:	learn: 0.2023562	total: 1m 40s	remaining: 46.1s
343:	learn: 0.2022564	total: 1m 40s	remaining: 45.8s
344:	learn: 0.2022246	total: 1m 41s	remaining: 45.5s
345:	learn: 0.2021749	total: 1m 41s	remaining: 45.2s
346:	learn: 0.2021213	total: 1m 41s	remaining: 44.9s
347:	learn: 0.2020026	total: 1m 42s	remaining: 44.6s
348:	learn: 0.2019405	total: 1m 42s	remaining: 44.3s
349:	learn: 0.2018962	total: 1m 42s	remaining: 44s
350:	learn: 0.2018424	total: 1m 43s	remaining: 43.7s
351:	learn: 0.2016222	total: 1m 43s	remaining: 43.4s
352:	learn: 0.2015545	total: 1m 43s	remaining: 43.1s
353:	learn: 0.2014847	total: 1m 43s	remaining: 42.9s
354:	learn: 0.2013684	total: 1m 44s	remaining: 42.6s
355:	learn: 0.2013407	total: 1m 44s	remaining: 42.3s
356:	learn: 0.2012860	total: 1m 44s	remaining: 42s
357:	learn: 0.2012564	total: 1m 45s	remaining: 41.7s
358:	learn: 0.2011684	total: 1m 45s	remaining: 41.4s
359:	learn: 0.2011111	total: 1m 45s	remaining: 41.1s
360:	learn: 0.2010396	total: 1m 46s	remaining: 40.8s
361:	learn: 0.2010202	total: 1m 46s	remaining: 40.5s
362:	learn: 0.2009747	total: 1m 46s	remaining: 40.2s
363:	learn: 0.2008993	total: 1m 46s	remaining: 39.9s
364:	learn: 0.2008144	total: 1m 47s	remaining: 39.6s
365:	learn: 0.2006996	total: 1m 47s	remaining: 39.4s
366:	learn: 0.2006363	total: 1m 47s	remaining: 39.1s
367:	learn: 0.2005742	total: 1m 48s	remaining: 38.8s
368:	learn: 0.2005523	total: 1m 48s	remaining: 38.5s
369:	learn: 0.2004151	total: 1m 48s	remaining: 38.2s
370:	learn: 0.2003749	total: 1m 48s	remaining: 37.9s
371:	learn: 0.2003431	total: 1m 49s	remaining: 37.6s
372:	learn: 0.2002721	total: 1m 49s	remaining: 37.3s
373:	learn: 0.2001517	total: 1m 49s	remaining: 37s
374:	learn: 0.2000768	total: 1m 50s	remaining: 36.7s
375:	learn: 0.2000324	total: 1m 50s	remaining: 36.4s
376:	learn: 0.1999962	total: 1m 50s	remaining: 36.1s
377:	learn: 0.1999272	total: 1m 50s	remaining: 35.8s
378:	learn: 0.1998744	total: 1m 51s	remaining: 35.5s
379:	learn: 0.1998397	total: 1m 51s	remaining: 35.2s
380:	learn: 0.1997546	total: 1m 51s	remaining: 34.9s
381:	learn: 0.1997059	total: 1m 52s	remaining: 34.6s
382:	learn: 0.1996672	total: 1m 52s	remaining: 34.3s
383:	learn: 0.1995538	total: 1m 52s	remaining: 34s

384:	learn: 0.1995327	total: 1m 53s	remaining: 33.8s
385:	learn: 0.1994430	total: 1m 53s	remaining: 33.5s
386:	learn: 0.1993815	total: 1m 53s	remaining: 33.2s
387:	learn: 0.1993219	total: 1m 53s	remaining: 32.9s
388:	learn: 0.1991886	total: 1m 54s	remaining: 32.6s
389:	learn: 0.1991240	total: 1m 54s	remaining: 32.3s
390:	learn: 0.1989626	total: 1m 54s	remaining: 32s
391:	learn: 0.1988330	total: 1m 55s	remaining: 31.7s
392:	learn: 0.1987003	total: 1m 55s	remaining: 31.4s
393:	learn: 0.1986450	total: 1m 55s	remaining: 31.1s
394:	learn: 0.1984985	total: 1m 55s	remaining: 30.8s
395:	learn: 0.1984533	total: 1m 56s	remaining: 30.5s
396:	learn: 0.1984369	total: 1m 56s	remaining: 30.3s
397:	learn: 0.1983407	total: 1m 56s	remaining: 30s
398:	learn: 0.1982860	total: 1m 57s	remaining: 29.7s
399:	learn: 0.1982147	total: 1m 57s	remaining: 29.4s
400:	learn: 0.1981554	total: 1m 57s	remaining: 29.1s
401:	learn: 0.1980861	total: 1m 58s	remaining: 28.8s
402:	learn: 0.1980471	total: 1m 58s	remaining: 28.5s
403:	learn: 0.1979929	total: 1m 58s	remaining: 28.2s
404:	learn: 0.1978858	total: 1m 59s	remaining: 28s
405:	learn: 0.1978276	total: 1m 59s	remaining: 27.6s
406:	learn: 0.1977944	total: 1m 59s	remaining: 27.4s
407:	learn: 0.1977574	total: 2m	remaining: 27.1s
408:	learn: 0.1976686	total: 2m	remaining: 26.8s
409:	learn: 0.1975774	total: 2m	remaining: 26.5s
410:	learn: 0.1974980	total: 2m	remaining: 26.2s
411:	learn: 0.1973649	total: 2m 1s	remaining: 25.9s
412:	learn: 0.1972985	total: 2m 1s	remaining: 25.6s
413:	learn: 0.1971735	total: 2m 2s	remaining: 25.3s
414:	learn: 0.1971143	total: 2m 2s	remaining: 25.1s
415:	learn: 0.1969663	total: 2m 2s	remaining: 24.8s
416:	learn: 0.1969337	total: 2m 3s	remaining: 24.5s
417:	learn: 0.1967990	total: 2m 3s	remaining: 24.2s
418:	learn: 0.1967507	total: 2m 3s	remaining: 23.9s
419:	learn: 0.1966539	total: 2m 4s	remaining: 23.6s
420:	learn: 0.1966202	total: 2m 4s	remaining: 23.3s
421:	learn: 0.1965492	total: 2m 4s	remaining: 23s
422:	learn: 0.1964325	total: 2m 4s	remaining: 22.7s
423:	learn: 0.1963548	total: 2m 5s	remaining: 22.5s
424:	learn: 0.1962960	total: 2m 5s	remaining: 22.2s
425:	learn: 0.1962543	total: 2m 5s	remaining: 21.9s
426:	learn: 0.1961847	total: 2m 6s	remaining: 21.6s
427:	learn: 0.1960904	total: 2m 6s	remaining: 21.3s
428:	learn: 0.1959928	total: 2m 6s	remaining: 21s
429:	learn: 0.1959498	total: 2m 7s	remaining: 20.7s
430:	learn: 0.1959275	total: 2m 7s	remaining: 20.4s
431:	learn: 0.1958775	total: 2m 7s	remaining: 20.1s

432:	learn: 0.1957807	total: 2m 8s	remaining: 19.8s
433:	learn: 0.1957313	total: 2m 8s	remaining: 19.5s
434:	learn: 0.1956775	total: 2m 8s	remaining: 19.2s
435:	learn: 0.1955948	total: 2m 8s	remaining: 18.9s
436:	learn: 0.1955308	total: 2m 9s	remaining: 18.6s
437:	learn: 0.1954660	total: 2m 9s	remaining: 18.3s
438:	learn: 0.1953861	total: 2m 9s	remaining: 18s
439:	learn: 0.1952826	total: 2m 10s	remaining: 17.7s
440:	learn: 0.1950286	total: 2m 10s	remaining: 17.4s
441:	learn: 0.1949689	total: 2m 10s	remaining: 17.1s
442:	learn: 0.1948732	total: 2m 10s	remaining: 16.8s
443:	learn: 0.1947307	total: 2m 11s	remaining: 16.5s
444:	learn: 0.1946598	total: 2m 11s	remaining: 16.3s
445:	learn: 0.1945692	total: 2m 11s	remaining: 16s
446:	learn: 0.1945051	total: 2m 12s	remaining: 15.7s
447:	learn: 0.1944596	total: 2m 12s	remaining: 15.4s
448:	learn: 0.1943671	total: 2m 12s	remaining: 15.1s
449:	learn: 0.1942741	total: 2m 12s	remaining: 14.8s
450:	learn: 0.1941660	total: 2m 13s	remaining: 14.5s
451:	learn: 0.1940769	total: 2m 13s	remaining: 14.2s
452:	learn: 0.1940078	total: 2m 13s	remaining: 13.9s
453:	learn: 0.1939692	total: 2m 14s	remaining: 13.6s
454:	learn: 0.1938450	total: 2m 14s	remaining: 13.3s
455:	learn: 0.1937985	total: 2m 14s	remaining: 13s
456:	learn: 0.1937400	total: 2m 15s	remaining: 12.7s
457:	learn: 0.1936243	total: 2m 15s	remaining: 12.4s
458:	learn: 0.1935774	total: 2m 15s	remaining: 12.1s
459:	learn: 0.1934994	total: 2m 15s	remaining: 11.8s
460:	learn: 0.1934903	total: 2m 16s	remaining: 11.5s
461:	learn: 0.1934564	total: 2m 16s	remaining: 11.2s
462:	learn: 0.1933826	total: 2m 16s	remaining: 10.9s
463:	learn: 0.1933161	total: 2m 17s	remaining: 10.6s
464:	learn: 0.1932974	total: 2m 17s	remaining: 10.4s
465:	learn: 0.1932386	total: 2m 17s	remaining: 10.1s
466:	learn: 0.1931607	total: 2m 18s	remaining: 9.76s
467:	learn: 0.1930153	total: 2m 18s	remaining: 9.46s
468:	learn: 0.1929213	total: 2m 18s	remaining: 9.17s
469:	learn: 0.1929111	total: 2m 18s	remaining: 8.87s
470:	learn: 0.1928887	total: 2m 19s	remaining: 8.57s
471:	learn: 0.1928165	total: 2m 19s	remaining: 8.28s
472:	learn: 0.1927365	total: 2m 19s	remaining: 7.98s
473:	learn: 0.1925336	total: 2m 20s	remaining: 7.69s
474:	learn: 0.1925111	total: 2m 20s	remaining: 7.39s
475:	learn: 0.1924867	total: 2m 20s	remaining: 7.1s
476:	learn: 0.1924730	total: 2m 21s	remaining: 6.8s
477:	learn: 0.1923887	total: 2m 21s	remaining: 6.51s
478:	learn: 0.1923359	total: 2m 21s	remaining: 6.21s
479:	learn: 0.1922792	total: 2m 22s	remaining: 5.92s

480:	learn: 0.1922415	total: 2m 22s	remaining: 5.62s
481:	learn: 0.1921723	total: 2m 22s	remaining: 5.33s
482:	learn: 0.1921364	total: 2m 22s	remaining: 5.03s
483:	learn: 0.1920708	total: 2m 23s	remaining: 4.74s
484:	learn: 0.1919798	total: 2m 23s	remaining: 4.44s
485:	learn: 0.1919422	total: 2m 23s	remaining: 4.14s
486:	learn: 0.1918808	total: 2m 24s	remaining: 3.85s
487:	learn: 0.1918395	total: 2m 24s	remaining: 3.55s
488:	learn: 0.1917478	total: 2m 24s	remaining: 3.26s
489:	learn: 0.1916279	total: 2m 25s	remaining: 2.96s
490:	learn: 0.1915927	total: 2m 25s	remaining: 2.66s
491:	learn: 0.1915288	total: 2m 25s	remaining: 2.37s
492:	learn: 0.1914769	total: 2m 26s	remaining: 2.07s
493:	learn: 0.1913701	total: 2m 26s	remaining: 1.78s
494:	learn: 0.1913217	total: 2m 26s	remaining: 1.48s
495:	learn: 0.1912887	total: 2m 26s	remaining: 1.18s
496:	learn: 0.1912103	total: 2m 27s	remaining: 888ms
497:	learn: 0.1911850	total: 2m 27s	remaining: 592ms
498:	learn: 0.1911017	total: 2m 27s	remaining: 296ms
499:	learn: 0.1910019	total: 2m 28s	remaining: 0us

Learning rate set to 0.172923

0:	learn: 0.9729492	total: 292ms	remaining: 2m 25s
1:	learn: 0.8962040	total: 587ms	remaining: 2m 26s
2:	learn: 0.8345034	total: 850ms	remaining: 2m 20s
3:	learn: 0.7923749	total: 1.24s	remaining: 2m 33s
4:	learn: 0.7583960	total: 1.59s	remaining: 2m 37s
5:	learn: 0.6620489	total: 1.94s	remaining: 2m 39s
6:	learn: 0.5917907	total: 2.29s	remaining: 2m 40s
7:	learn: 0.5406658	total: 2.6s	remaining: 2m 39s
8:	learn: 0.5212568	total: 2.92s	remaining: 2m 39s
9:	learn: 0.4828932	total: 3.25s	remaining: 2m 39s
10:	learn: 0.4738210	total: 3.56s	remaining: 2m 38s
11:	learn: 0.4436551	total: 3.91s	remaining: 2m 39s
12:	learn: 0.4203661	total: 4.25s	remaining: 2m 39s
13:	learn: 0.4042321	total: 4.55s	remaining: 2m 38s
14:	learn: 0.3882079	total: 4.81s	remaining: 2m 35s
15:	learn: 0.3660701	total: 5.16s	remaining: 2m 36s
16:	learn: 0.3485879	total: 5.45s	remaining: 2m 34s
17:	learn: 0.3352209	total: 5.8s	remaining: 2m 35s
18:	learn: 0.3280002	total: 6.11s	remaining: 2m 34s
19:	learn: 0.3166018	total: 6.42s	remaining: 2m 34s
20:	learn: 0.3065249	total: 6.74s	remaining: 2m 33s
21:	learn: 0.2984697	total: 7.04s	remaining: 2m 32s
22:	learn: 0.2916620	total: 7.33s	remaining: 2m 31s
23:	learn: 0.2868625	total: 7.65s	remaining: 2m 31s
24:	learn: 0.2858561	total: 7.98s	remaining: 2m 31s
25:	learn: 0.2790300	total: 8.29s	remaining: 2m 31s
26:	learn: 0.2751445	total: 8.56s	remaining: 2m 29s

27:	learn: 0.2710259	total: 8.87s	remaining: 2m 29s
28:	learn: 0.2702438	total: 9.16s	remaining: 2m 28s
29:	learn: 0.2676148	total: 9.45s	remaining: 2m 27s
30:	learn: 0.2667575	total: 9.75s	remaining: 2m 27s
31:	learn: 0.2614029	total: 10.1s	remaining: 2m 27s
32:	learn: 0.2599320	total: 10.3s	remaining: 2m 26s
33:	learn: 0.2593760	total: 10.7s	remaining: 2m 26s
34:	learn: 0.2568463	total: 11s	remaining: 2m 25s
35:	learn: 0.2541448	total: 11.3s	remaining: 2m 25s
36:	learn: 0.2519380	total: 11.6s	remaining: 2m 25s
37:	learn: 0.2512546	total: 11.9s	remaining: 2m 24s
38:	learn: 0.2505282	total: 12.2s	remaining: 2m 24s
39:	learn: 0.2483333	total: 12.5s	remaining: 2m 24s
40:	learn: 0.2467891	total: 12.9s	remaining: 2m 24s
41:	learn: 0.2458324	total: 13.2s	remaining: 2m 24s
42:	learn: 0.2454006	total: 13.5s	remaining: 2m 23s
43:	learn: 0.2442821	total: 13.8s	remaining: 2m 22s
44:	learn: 0.2435938	total: 14s	remaining: 2m 21s
45:	learn: 0.2431522	total: 14.4s	remaining: 2m 22s
46:	learn: 0.2428049	total: 14.7s	remaining: 2m 21s
47:	learn: 0.2426817	total: 15s	remaining: 2m 21s
48:	learn: 0.2394217	total: 15.3s	remaining: 2m 21s
49:	learn: 0.2388823	total: 15.6s	remaining: 2m 20s
50:	learn: 0.2370998	total: 15.9s	remaining: 2m 20s
51:	learn: 0.2362014	total: 16.3s	remaining: 2m 20s
52:	learn: 0.2360607	total: 16.5s	remaining: 2m 19s
53:	learn: 0.2358110	total: 16.8s	remaining: 2m 19s
54:	learn: 0.2355849	total: 17.1s	remaining: 2m 18s
55:	learn: 0.2333030	total: 17.5s	remaining: 2m 18s
56:	learn: 0.2330844	total: 17.7s	remaining: 2m 17s
57:	learn: 0.2328685	total: 18s	remaining: 2m 17s
58:	learn: 0.2320520	total: 18.4s	remaining: 2m 17s
59:	learn: 0.2318757	total: 18.7s	remaining: 2m 16s
60:	learn: 0.2316804	total: 18.9s	remaining: 2m 16s
61:	learn: 0.2313795	total: 19.2s	remaining: 2m 15s
62:	learn: 0.2309142	total: 19.5s	remaining: 2m 15s
63:	learn: 0.2307994	total: 19.8s	remaining: 2m 15s
64:	learn: 0.2307293	total: 20.1s	remaining: 2m 14s
65:	learn: 0.2305242	total: 20.4s	remaining: 2m 14s
66:	learn: 0.2303665	total: 20.7s	remaining: 2m 14s
67:	learn: 0.2302275	total: 21s	remaining: 2m 13s
68:	learn: 0.2300109	total: 21.3s	remaining: 2m 13s
69:	learn: 0.2297141	total: 21.6s	remaining: 2m 12s
70:	learn: 0.2293880	total: 22s	remaining: 2m 12s
71:	learn: 0.2289180	total: 22.2s	remaining: 2m 12s
72:	learn: 0.2286720	total: 22.5s	remaining: 2m 11s
73:	learn: 0.2286182	total: 22.8s	remaining: 2m 11s
74:	learn: 0.2283967	total: 23s	remaining: 2m 10s

75:	learn: 0.2282405	total: 23.3s	remaining: 2m 9s
76:	learn: 0.2274368	total: 23.6s	remaining: 2m 9s
77:	learn: 0.2269193	total: 23.9s	remaining: 2m 9s
78:	learn: 0.2259011	total: 24.2s	remaining: 2m 9s
79:	learn: 0.2258339	total: 24.5s	remaining: 2m 8s
80:	learn: 0.2255495	total: 24.9s	remaining: 2m 8s
81:	learn: 0.2253059	total: 25.1s	remaining: 2m 8s
82:	learn: 0.2252667	total: 25.4s	remaining: 2m 7s
83:	learn: 0.2236368	total: 25.8s	remaining: 2m 7s
84:	learn: 0.2234012	total: 26.1s	remaining: 2m 7s
85:	learn: 0.2232690	total: 26.4s	remaining: 2m 6s
86:	learn: 0.2230218	total: 26.7s	remaining: 2m 6s
87:	learn: 0.2228582	total: 26.9s	remaining: 2m 6s
88:	learn: 0.2218078	total: 27.2s	remaining: 2m 5s
89:	learn: 0.2210397	total: 27.5s	remaining: 2m 5s
90:	learn: 0.2208291	total: 27.8s	remaining: 2m 4s
91:	learn: 0.2207506	total: 28.1s	remaining: 2m 4s
92:	learn: 0.2206445	total: 28.3s	remaining: 2m 3s
93:	learn: 0.2203452	total: 28.5s	remaining: 2m 3s
94:	learn: 0.2202445	total: 28.8s	remaining: 2m 2s
95:	learn: 0.2200666	total: 29s	remaining: 2m 2s
96:	learn: 0.2199825	total: 29.3s	remaining: 2m 1s
97:	learn: 0.2199084	total: 29.5s	remaining: 2m 1s
98:	learn: 0.2197093	total: 29.8s	remaining: 2m
99:	learn: 0.2196471	total: 30s	remaining: 2m
100:	learn: 0.2195823	total: 30.3s	remaining: 1m 59s
101:	learn: 0.2195655	total: 30.5s	remaining: 1m 59s
102:	learn: 0.2193741	total: 30.8s	remaining: 1m 58s
103:	learn: 0.2193189	total: 31s	remaining: 1m 58s
104:	learn: 0.2190351	total: 31.3s	remaining: 1m 57s
105:	learn: 0.2187125	total: 31.5s	remaining: 1m 57s
106:	learn: 0.2186020	total: 31.8s	remaining: 1m 56s
107:	learn: 0.2185036	total: 32s	remaining: 1m 56s
108:	learn: 0.2182281	total: 32.3s	remaining: 1m 55s
109:	learn: 0.2181365	total: 32.5s	remaining: 1m 55s
110:	learn: 0.2180824	total: 32.8s	remaining: 1m 54s
111:	learn: 0.2180381	total: 33s	remaining: 1m 54s
112:	learn: 0.2177991	total: 33.2s	remaining: 1m 53s
113:	learn: 0.2176643	total: 33.4s	remaining: 1m 53s
114:	learn: 0.2176369	total: 33.7s	remaining: 1m 52s
115:	learn: 0.2175206	total: 33.9s	remaining: 1m 52s
116:	learn: 0.2174624	total: 34.1s	remaining: 1m 51s
117:	learn: 0.2170766	total: 34.4s	remaining: 1m 51s
118:	learn: 0.2166180	total: 34.6s	remaining: 1m 50s
119:	learn: 0.2163170	total: 34.8s	remaining: 1m 50s
120:	learn: 0.2161150	total: 35.1s	remaining: 1m 49s
121:	learn: 0.2160224	total: 35.3s	remaining: 1m 49s
122:	learn: 0.2154596	total: 35.5s	remaining: 1m 48s

123:	learn: 0.2153904	total: 35.8s	remaining: 1m 48s
124:	learn: 0.2152548	total: 36s	remaining: 1m 48s
125:	learn: 0.2152418	total: 36.3s	remaining: 1m 47s
126:	learn: 0.2151764	total: 36.5s	remaining: 1m 47s
127:	learn: 0.2150623	total: 36.7s	remaining: 1m 46s
128:	learn: 0.2148911	total: 37s	remaining: 1m 46s
129:	learn: 0.2147494	total: 37.3s	remaining: 1m 46s
130:	learn: 0.2147227	total: 37.5s	remaining: 1m 45s
131:	learn: 0.2144070	total: 37.8s	remaining: 1m 45s
132:	learn: 0.2143011	total: 38s	remaining: 1m 44s
133:	learn: 0.2142771	total: 38.3s	remaining: 1m 44s
134:	learn: 0.2141191	total: 38.5s	remaining: 1m 44s
135:	learn: 0.2140362	total: 38.7s	remaining: 1m 43s
136:	learn: 0.2139958	total: 39s	remaining: 1m 43s
137:	learn: 0.2138935	total: 39.2s	remaining: 1m 42s
138:	learn: 0.2138706	total: 39.5s	remaining: 1m 42s
139:	learn: 0.2137148	total: 39.7s	remaining: 1m 42s
140:	learn: 0.2136412	total: 40s	remaining: 1m 41s
141:	learn: 0.2135037	total: 40.2s	remaining: 1m 41s
142:	learn: 0.2134032	total: 40.5s	remaining: 1m 41s
143:	learn: 0.2133291	total: 40.7s	remaining: 1m 40s
144:	learn: 0.2124044	total: 41s	remaining: 1m 40s
145:	learn: 0.2123492	total: 41.2s	remaining: 1m 39s
146:	learn: 0.2122614	total: 41.4s	remaining: 1m 39s
147:	learn: 0.2121705	total: 41.7s	remaining: 1m 39s
148:	learn: 0.2119781	total: 41.9s	remaining: 1m 38s
149:	learn: 0.2118499	total: 42.1s	remaining: 1m 38s
150:	learn: 0.2117486	total: 42.4s	remaining: 1m 37s
151:	learn: 0.2117014	total: 42.6s	remaining: 1m 37s
152:	learn: 0.2116446	total: 42.8s	remaining: 1m 37s
153:	learn: 0.2115383	total: 43s	remaining: 1m 36s
154:	learn: 0.2114539	total: 43.2s	remaining: 1m 36s
155:	learn: 0.2113609	total: 43.4s	remaining: 1m 35s
156:	learn: 0.2111791	total: 43.7s	remaining: 1m 35s
157:	learn: 0.2111168	total: 43.9s	remaining: 1m 35s
158:	learn: 0.2107759	total: 44.1s	remaining: 1m 34s
159:	learn: 0.2107039	total: 44.3s	remaining: 1m 34s
160:	learn: 0.2106551	total: 44.5s	remaining: 1m 33s
161:	learn: 0.2106157	total: 44.7s	remaining: 1m 33s
162:	learn: 0.2105753	total: 44.9s	remaining: 1m 32s
163:	learn: 0.2105506	total: 45.1s	remaining: 1m 32s
164:	learn: 0.2102910	total: 45.4s	remaining: 1m 32s
165:	learn: 0.2101377	total: 45.6s	remaining: 1m 31s
166:	learn: 0.2100489	total: 45.8s	remaining: 1m 31s
167:	learn: 0.2099229	total: 46s	remaining: 1m 30s
168:	learn: 0.2098734	total: 46.3s	remaining: 1m 30s
169:	learn: 0.2097684	total: 46.5s	remaining: 1m 30s
170:	learn: 0.2097373	total: 46.7s	remaining: 1m 29s

171:	learn: 0.2096181	total: 47s	remaining: 1m 29s
172:	learn: 0.2095334	total: 47.3s	remaining: 1m 29s
173:	learn: 0.2094980	total: 47.5s	remaining: 1m 29s
174:	learn: 0.2093326	total: 47.7s	remaining: 1m 28s
175:	learn: 0.2092004	total: 48s	remaining: 1m 28s
176:	learn: 0.2091085	total: 48.2s	remaining: 1m 27s
177:	learn: 0.2090336	total: 48.5s	remaining: 1m 27s
178:	learn: 0.2088947	total: 48.7s	remaining: 1m 27s
179:	learn: 0.2088295	total: 49s	remaining: 1m 27s
180:	learn: 0.2087599	total: 49.2s	remaining: 1m 26s
181:	learn: 0.2086592	total: 49.4s	remaining: 1m 26s
182:	learn: 0.2085943	total: 49.7s	remaining: 1m 26s
183:	learn: 0.2084645	total: 49.9s	remaining: 1m 25s
184:	learn: 0.2083636	total: 50.2s	remaining: 1m 25s
185:	learn: 0.2082770	total: 50.4s	remaining: 1m 25s
186:	learn: 0.2080814	total: 50.7s	remaining: 1m 24s
187:	learn: 0.2080749	total: 50.9s	remaining: 1m 24s
188:	learn: 0.2079776	total: 51.1s	remaining: 1m 24s
189:	learn: 0.2079120	total: 51.4s	remaining: 1m 23s
190:	learn: 0.2078499	total: 51.6s	remaining: 1m 23s
191:	learn: 0.2077975	total: 51.9s	remaining: 1m 23s
192:	learn: 0.2077402	total: 52.1s	remaining: 1m 22s
193:	learn: 0.2076167	total: 52.4s	remaining: 1m 22s
194:	learn: 0.2075116	total: 52.6s	remaining: 1m 22s
195:	learn: 0.2074211	total: 53s	remaining: 1m 22s
196:	learn: 0.2071991	total: 53.2s	remaining: 1m 21s
197:	learn: 0.2071393	total: 53.5s	remaining: 1m 21s
198:	learn: 0.2070316	total: 53.7s	remaining: 1m 21s
199:	learn: 0.2069045	total: 54s	remaining: 1m 20s
200:	learn: 0.2068670	total: 54.2s	remaining: 1m 20s
201:	learn: 0.2068214	total: 54.5s	remaining: 1m 20s
202:	learn: 0.2067513	total: 54.7s	remaining: 1m 20s
203:	learn: 0.2066314	total: 55s	remaining: 1m 19s
204:	learn: 0.2065280	total: 55.3s	remaining: 1m 19s
205:	learn: 0.2064878	total: 55.6s	remaining: 1m 19s
206:	learn: 0.2064492	total: 55.8s	remaining: 1m 18s
207:	learn: 0.2063831	total: 56s	remaining: 1m 18s
208:	learn: 0.2063098	total: 56.3s	remaining: 1m 18s
209:	learn: 0.2062074	total: 56.6s	remaining: 1m 18s
210:	learn: 0.2061461	total: 56.8s	remaining: 1m 17s
211:	learn: 0.2060918	total: 57s	remaining: 1m 17s
212:	learn: 0.2060634	total: 57.3s	remaining: 1m 17s
213:	learn: 0.2060406	total: 57.5s	remaining: 1m 16s
214:	learn: 0.2059991	total: 57.7s	remaining: 1m 16s
215:	learn: 0.2059726	total: 57.9s	remaining: 1m 16s
216:	learn: 0.2059266	total: 58.1s	remaining: 1m 15s
217:	learn: 0.2058143	total: 58.4s	remaining: 1m 15s
218:	learn: 0.2057975	total: 58.6s	remaining: 1m 15s

219:	learn: 0.2057331	total: 58.8s	remaining: 1m 14s
220:	learn: 0.2056838	total: 59s	remaining: 1m 14s
221:	learn: 0.2056058	total: 59.2s	remaining: 1m 14s
222:	learn: 0.2055674	total: 59.4s	remaining: 1m 13s
223:	learn: 0.2055077	total: 59.6s	remaining: 1m 13s
224:	learn: 0.2054677	total: 59.9s	remaining: 1m 13s
225:	learn: 0.2053914	total: 1m	remaining: 1m 12s
226:	learn: 0.2052080	total: 1m	remaining: 1m 12s
227:	learn: 0.2044659	total: 1m	remaining: 1m 12s
228:	learn: 0.2042818	total: 1m	remaining: 1m 11s
229:	learn: 0.2042358	total: 1m	remaining: 1m 11s
230:	learn: 0.2042075	total: 1m 1s	remaining: 1m 11s
231:	learn: 0.2041433	total: 1m 1s	remaining: 1m 10s
232:	learn: 0.2040905	total: 1m 1s	remaining: 1m 10s
233:	learn: 0.2039650	total: 1m 1s	remaining: 1m 10s
234:	learn: 0.2039332	total: 1m 2s	remaining: 1m 10s
235:	learn: 0.2038419	total: 1m 2s	remaining: 1m 9s
236:	learn: 0.2037990	total: 1m 2s	remaining: 1m 9s
237:	learn: 0.2037315	total: 1m 2s	remaining: 1m 9s
238:	learn: 0.2036724	total: 1m 3s	remaining: 1m 8s
239:	learn: 0.2036456	total: 1m 3s	remaining: 1m 8s
240:	learn: 0.2035570	total: 1m 3s	remaining: 1m 8s
241:	learn: 0.2034456	total: 1m 3s	remaining: 1m 8s
242:	learn: 0.2033641	total: 1m 4s	remaining: 1m 7s
243:	learn: 0.2031906	total: 1m 4s	remaining: 1m 7s
244:	learn: 0.2031002	total: 1m 4s	remaining: 1m 7s
245:	learn: 0.2030253	total: 1m 4s	remaining: 1m 6s
246:	learn: 0.2029776	total: 1m 5s	remaining: 1m 6s
247:	learn: 0.2029339	total: 1m 5s	remaining: 1m 6s
248:	learn: 0.2028930	total: 1m 5s	remaining: 1m 6s
249:	learn: 0.2028323	total: 1m 5s	remaining: 1m 5s
250:	learn: 0.2027714	total: 1m 5s	remaining: 1m 5s
251:	learn: 0.2026866	total: 1m 6s	remaining: 1m 5s
252:	learn: 0.2025203	total: 1m 6s	remaining: 1m 4s
253:	learn: 0.2024883	total: 1m 6s	remaining: 1m 4s
254:	learn: 0.2024033	total: 1m 6s	remaining: 1m 4s
255:	learn: 0.2022378	total: 1m 7s	remaining: 1m 4s
256:	learn: 0.2021538	total: 1m 7s	remaining: 1m 3s
257:	learn: 0.2020986	total: 1m 7s	remaining: 1m 3s
258:	learn: 0.2020026	total: 1m 7s	remaining: 1m 3s
259:	learn: 0.2019130	total: 1m 8s	remaining: 1m 2s
260:	learn: 0.2018229	total: 1m 8s	remaining: 1m 2s
261:	learn: 0.2017826	total: 1m 8s	remaining: 1m 2s
262:	learn: 0.2017314	total: 1m 8s	remaining: 1m 2s
263:	learn: 0.2015983	total: 1m 9s	remaining: 1m 1s
264:	learn: 0.2015667	total: 1m 9s	remaining: 1m 1s
265:	learn: 0.2013143	total: 1m 9s	remaining: 1m 1s
266:	learn: 0.2011684	total: 1m 9s	remaining: 1m

267:	learn: 0.2010428	total: 1m 10s	remaining: 1m
268:	learn: 0.2009393	total: 1m 10s	remaining: 1m
269:	learn: 0.2008423	total: 1m 10s	remaining: 1m
270:	learn: 0.2008150	total: 1m 10s	remaining: 59.9s
271:	learn: 0.2006944	total: 1m 11s	remaining: 59.6s
272:	learn: 0.2006698	total: 1m 11s	remaining: 59.3s
273:	learn: 0.2006202	total: 1m 11s	remaining: 59s
274:	learn: 0.2005470	total: 1m 11s	remaining: 58.7s
275:	learn: 0.2004805	total: 1m 11s	remaining: 58.4s
276:	learn: 0.2003979	total: 1m 12s	remaining: 58.2s
277:	learn: 0.2003065	total: 1m 12s	remaining: 57.9s
278:	learn: 0.2002084	total: 1m 12s	remaining: 57.6s
279:	learn: 0.2001755	total: 1m 12s	remaining: 57.3s
280:	learn: 0.2001213	total: 1m 13s	remaining: 57.1s
281:	learn: 0.2000298	total: 1m 13s	remaining: 56.8s
282:	learn: 0.1999610	total: 1m 13s	remaining: 56.5s
283:	learn: 0.1999076	total: 1m 13s	remaining: 56.2s
284:	learn: 0.1998097	total: 1m 14s	remaining: 55.9s
285:	learn: 0.1997092	total: 1m 14s	remaining: 55.6s
286:	learn: 0.1996136	total: 1m 14s	remaining: 55.4s
287:	learn: 0.1994905	total: 1m 14s	remaining: 55.1s
288:	learn: 0.1993975	total: 1m 15s	remaining: 54.8s
289:	learn: 0.1993901	total: 1m 15s	remaining: 54.5s
290:	learn: 0.1989962	total: 1m 15s	remaining: 54.2s
291:	learn: 0.1986474	total: 1m 15s	remaining: 53.9s
292:	learn: 0.1986248	total: 1m 15s	remaining: 53.7s
293:	learn: 0.1985359	total: 1m 16s	remaining: 53.4s
294:	learn: 0.1984727	total: 1m 16s	remaining: 53.1s
295:	learn: 0.1984043	total: 1m 16s	remaining: 52.8s
296:	learn: 0.1983779	total: 1m 16s	remaining: 52.5s
297:	learn: 0.1983486	total: 1m 17s	remaining: 52.2s
298:	learn: 0.1982848	total: 1m 17s	remaining: 52s
299:	learn: 0.1982043	total: 1m 17s	remaining: 51.7s
300:	learn: 0.1981678	total: 1m 17s	remaining: 51.4s
301:	learn: 0.1980524	total: 1m 17s	remaining: 51.1s
302:	learn: 0.1980235	total: 1m 18s	remaining: 50.8s
303:	learn: 0.1978825	total: 1m 18s	remaining: 50.5s
304:	learn: 0.1978355	total: 1m 18s	remaining: 50.3s
305:	learn: 0.1977801	total: 1m 18s	remaining: 50s
306:	learn: 0.1977535	total: 1m 19s	remaining: 49.7s
307:	learn: 0.1976978	total: 1m 19s	remaining: 49.5s
308:	learn: 0.1976681	total: 1m 19s	remaining: 49.2s
309:	learn: 0.1975805	total: 1m 19s	remaining: 49s
310:	learn: 0.1974712	total: 1m 20s	remaining: 48.7s
311:	learn: 0.1973613	total: 1m 20s	remaining: 48.4s
312:	learn: 0.1973152	total: 1m 20s	remaining: 48.1s
313:	learn: 0.1972304	total: 1m 20s	remaining: 47.9s
314:	learn: 0.1972012	total: 1m 21s	remaining: 47.6s

315:	learn: 0.1971271	total: 1m 21s	remaining: 47.3s
316:	learn: 0.1970303	total: 1m 21s	remaining: 47.1s
317:	learn: 0.1968667	total: 1m 21s	remaining: 46.8s
318:	learn: 0.1968361	total: 1m 22s	remaining: 46.6s
319:	learn: 0.1966988	total: 1m 22s	remaining: 46.3s
320:	learn: 0.1966422	total: 1m 22s	remaining: 46.1s
321:	learn: 0.1965332	total: 1m 22s	remaining: 45.8s
322:	learn: 0.1965038	total: 1m 23s	remaining: 45.5s
323:	learn: 0.1964479	total: 1m 23s	remaining: 45.3s
324:	learn: 0.1963726	total: 1m 23s	remaining: 45s
325:	learn: 0.1963182	total: 1m 23s	remaining: 44.7s
326:	learn: 0.1962759	total: 1m 24s	remaining: 44.5s
327:	learn: 0.1962586	total: 1m 24s	remaining: 44.2s
328:	learn: 0.1961731	total: 1m 24s	remaining: 44s
329:	learn: 0.1960438	total: 1m 24s	remaining: 43.7s
330:	learn: 0.1960049	total: 1m 25s	remaining: 43.4s
331:	learn: 0.1958793	total: 1m 25s	remaining: 43.2s
332:	learn: 0.1958436	total: 1m 25s	remaining: 42.9s
333:	learn: 0.1957855	total: 1m 25s	remaining: 42.6s
334:	learn: 0.1957441	total: 1m 26s	remaining: 42.4s
335:	learn: 0.1956929	total: 1m 26s	remaining: 42.1s
336:	learn: 0.1956313	total: 1m 26s	remaining: 41.8s
337:	learn: 0.1954779	total: 1m 26s	remaining: 41.6s
338:	learn: 0.1953189	total: 1m 27s	remaining: 41.3s
339:	learn: 0.1953044	total: 1m 27s	remaining: 41.1s
340:	learn: 0.1952529	total: 1m 27s	remaining: 40.8s
341:	learn: 0.1951699	total: 1m 27s	remaining: 40.5s
342:	learn: 0.1951044	total: 1m 27s	remaining: 40.3s
343:	learn: 0.1950745	total: 1m 28s	remaining: 40s
344:	learn: 0.1949639	total: 1m 28s	remaining: 39.7s
345:	learn: 0.1948681	total: 1m 28s	remaining: 39.5s
346:	learn: 0.1948370	total: 1m 28s	remaining: 39.2s
347:	learn: 0.1947301	total: 1m 29s	remaining: 39s
348:	learn: 0.1946577	total: 1m 29s	remaining: 38.7s
349:	learn: 0.1945809	total: 1m 29s	remaining: 38.4s
350:	learn: 0.1944872	total: 1m 29s	remaining: 38.2s
351:	learn: 0.1943614	total: 1m 30s	remaining: 37.9s
352:	learn: 0.1943262	total: 1m 30s	remaining: 37.6s
353:	learn: 0.1943064	total: 1m 30s	remaining: 37.4s
354:	learn: 0.1942450	total: 1m 30s	remaining: 37.1s
355:	learn: 0.1942215	total: 1m 31s	remaining: 36.8s
356:	learn: 0.1941010	total: 1m 31s	remaining: 36.5s
357:	learn: 0.1940740	total: 1m 31s	remaining: 36.3s
358:	learn: 0.1939794	total: 1m 31s	remaining: 36s
359:	learn: 0.1938723	total: 1m 31s	remaining: 35.7s
360:	learn: 0.1938241	total: 1m 32s	remaining: 35.4s
361:	learn: 0.1937205	total: 1m 32s	remaining: 35.2s
362:	learn: 0.1936473	total: 1m 32s	remaining: 34.9s

363:	learn: 0.1935877	total: 1m 32s	remaining: 34.7s
364:	learn: 0.1935500	total: 1m 32s	remaining: 34.4s
365:	learn: 0.1934392	total: 1m 33s	remaining: 34.1s
366:	learn: 0.1934258	total: 1m 33s	remaining: 33.8s
367:	learn: 0.1933644	total: 1m 33s	remaining: 33.5s
368:	learn: 0.1932504	total: 1m 33s	remaining: 33.3s
369:	learn: 0.1932343	total: 1m 33s	remaining: 33s
370:	learn: 0.1931839	total: 1m 34s	remaining: 32.7s
371:	learn: 0.1931467	total: 1m 34s	remaining: 32.4s
372:	learn: 0.1931163	total: 1m 34s	remaining: 32.1s
373:	learn: 0.1929465	total: 1m 34s	remaining: 31.9s
374:	learn: 0.1928851	total: 1m 34s	remaining: 31.6s
375:	learn: 0.1928111	total: 1m 34s	remaining: 31.3s
376:	learn: 0.1927928	total: 1m 35s	remaining: 31s
377:	learn: 0.1926640	total: 1m 35s	remaining: 30.7s
378:	learn: 0.1926131	total: 1m 35s	remaining: 30.5s
379:	learn: 0.1925904	total: 1m 35s	remaining: 30.2s
380:	learn: 0.1925410	total: 1m 35s	remaining: 29.9s
381:	learn: 0.1924920	total: 1m 36s	remaining: 29.7s
382:	learn: 0.1924594	total: 1m 36s	remaining: 29.4s
383:	learn: 0.1922892	total: 1m 36s	remaining: 29.2s
384:	learn: 0.1922488	total: 1m 36s	remaining: 28.9s
385:	learn: 0.1921100	total: 1m 37s	remaining: 28.7s
386:	learn: 0.1920129	total: 1m 37s	remaining: 28.4s
387:	learn: 0.1919800	total: 1m 37s	remaining: 28.2s
388:	learn: 0.1919163	total: 1m 37s	remaining: 27.9s
389:	learn: 0.1918760	total: 1m 38s	remaining: 27.7s
390:	learn: 0.1917942	total: 1m 38s	remaining: 27.4s
391:	learn: 0.1917686	total: 1m 38s	remaining: 27.1s
392:	learn: 0.1917250	total: 1m 38s	remaining: 26.9s
393:	learn: 0.1916791	total: 1m 38s	remaining: 26.6s
394:	learn: 0.1916406	total: 1m 39s	remaining: 26.4s
395:	learn: 0.1915485	total: 1m 39s	remaining: 26.1s
396:	learn: 0.1914832	total: 1m 39s	remaining: 25.9s
397:	learn: 0.1914590	total: 1m 40s	remaining: 25.6s
398:	learn: 0.1913912	total: 1m 40s	remaining: 25.4s
399:	learn: 0.1913719	total: 1m 40s	remaining: 25.1s
400:	learn: 0.1913387	total: 1m 40s	remaining: 24.9s
401:	learn: 0.1912904	total: 1m 41s	remaining: 24.6s
402:	learn: 0.1911767	total: 1m 41s	remaining: 24.4s
403:	learn: 0.1910674	total: 1m 41s	remaining: 24.1s
404:	learn: 0.1909759	total: 1m 41s	remaining: 23.9s
405:	learn: 0.1908211	total: 1m 42s	remaining: 23.6s
406:	learn: 0.1907905	total: 1m 42s	remaining: 23.4s
407:	learn: 0.1907723	total: 1m 42s	remaining: 23.1s
408:	learn: 0.1907544	total: 1m 42s	remaining: 22.9s
409:	learn: 0.1907066	total: 1m 43s	remaining: 22.6s
410:	learn: 0.1906957	total: 1m 43s	remaining: 22.4s

411:	learn: 0.1906744	total: 1m 43s	remaining: 22.1s
412:	learn: 0.1905883	total: 1m 43s	remaining: 21.9s
413:	learn: 0.1905461	total: 1m 44s	remaining: 21.6s
414:	learn: 0.1905114	total: 1m 44s	remaining: 21.4s
415:	learn: 0.1904596	total: 1m 44s	remaining: 21.1s
416:	learn: 0.1904029	total: 1m 44s	remaining: 20.9s
417:	learn: 0.1903482	total: 1m 44s	remaining: 20.6s
418:	learn: 0.1903104	total: 1m 45s	remaining: 20.3s
419:	learn: 0.1901880	total: 1m 45s	remaining: 20.1s
420:	learn: 0.1901370	total: 1m 45s	remaining: 19.8s
421:	learn: 0.1900081	total: 1m 45s	remaining: 19.6s
422:	learn: 0.1899197	total: 1m 46s	remaining: 19.3s
423:	learn: 0.1898632	total: 1m 46s	remaining: 19.1s
424:	learn: 0.1898082	total: 1m 46s	remaining: 18.8s
425:	learn: 0.1897466	total: 1m 46s	remaining: 18.5s
426:	learn: 0.1896900	total: 1m 47s	remaining: 18.3s
427:	learn: 0.1896351	total: 1m 47s	remaining: 18s
428:	learn: 0.1895230	total: 1m 47s	remaining: 17.8s
429:	learn: 0.1894714	total: 1m 47s	remaining: 17.5s
430:	learn: 0.1894225	total: 1m 47s	remaining: 17.3s
431:	learn: 0.1893201	total: 1m 48s	remaining: 17s
432:	learn: 0.1892924	total: 1m 48s	remaining: 16.8s
433:	learn: 0.1892104	total: 1m 48s	remaining: 16.5s
434:	learn: 0.1891402	total: 1m 48s	remaining: 16.3s
435:	learn: 0.1890968	total: 1m 48s	remaining: 16s
436:	learn: 0.1890702	total: 1m 49s	remaining: 15.7s
437:	learn: 0.1890278	total: 1m 49s	remaining: 15.5s
438:	learn: 0.1889457	total: 1m 49s	remaining: 15.2s
439:	learn: 0.1888606	total: 1m 49s	remaining: 15s
440:	learn: 0.1887819	total: 1m 50s	remaining: 14.7s
441:	learn: 0.1887099	total: 1m 50s	remaining: 14.5s
442:	learn: 0.1885882	total: 1m 50s	remaining: 14.2s
443:	learn: 0.1885440	total: 1m 50s	remaining: 14s
444:	learn: 0.1885040	total: 1m 51s	remaining: 13.7s
445:	learn: 0.1884323	total: 1m 51s	remaining: 13.5s
446:	learn: 0.1883823	total: 1m 51s	remaining: 13.2s
447:	learn: 0.1883063	total: 1m 51s	remaining: 13s
448:	learn: 0.1882623	total: 1m 52s	remaining: 12.7s
449:	learn: 0.1881507	total: 1m 52s	remaining: 12.5s
450:	learn: 0.1880576	total: 1m 52s	remaining: 12.2s
451:	learn: 0.1879494	total: 1m 52s	remaining: 12s
452:	learn: 0.1878296	total: 1m 52s	remaining: 11.7s
453:	learn: 0.1877214	total: 1m 53s	remaining: 11.5s
454:	learn: 0.1876395	total: 1m 53s	remaining: 11.2s
455:	learn: 0.1875634	total: 1m 53s	remaining: 11s
456:	learn: 0.1875209	total: 1m 53s	remaining: 10.7s
457:	learn: 0.1874393	total: 1m 54s	remaining: 10.5s
458:	learn: 0.1874202	total: 1m 54s	remaining: 10.2s

459:	learn: 0.1873815	total: 1m 54s	remaining: 9.98s
460:	learn: 0.1873314	total: 1m 54s	remaining: 9.72s
461:	learn: 0.1872421	total: 1m 55s	remaining: 9.47s
462:	learn: 0.1872157	total: 1m 55s	remaining: 9.22s
463:	learn: 0.1871776	total: 1m 55s	remaining: 8.97s
464:	learn: 0.1871562	total: 1m 55s	remaining: 8.72s
465:	learn: 0.1870675	total: 1m 56s	remaining: 8.48s
466:	learn: 0.1870380	total: 1m 56s	remaining: 8.23s
467:	learn: 0.1869866	total: 1m 56s	remaining: 7.98s
468:	learn: 0.1869155	total: 1m 56s	remaining: 7.73s
469:	learn: 0.1868539	total: 1m 57s	remaining: 7.48s
470:	learn: 0.1868168	total: 1m 57s	remaining: 7.23s
471:	learn: 0.1867493	total: 1m 57s	remaining: 6.98s
472:	learn: 0.1867403	total: 1m 57s	remaining: 6.73s
473:	learn: 0.1866632	total: 1m 58s	remaining: 6.48s
474:	learn: 0.1866286	total: 1m 58s	remaining: 6.23s
475:	learn: 0.1865783	total: 1m 58s	remaining: 5.98s
476:	learn: 0.1865112	total: 1m 58s	remaining: 5.73s
477:	learn: 0.1864823	total: 1m 59s	remaining: 5.48s
478:	learn: 0.1863623	total: 1m 59s	remaining: 5.23s
479:	learn: 0.1863265	total: 1m 59s	remaining: 4.98s
480:	learn: 0.1862407	total: 1m 59s	remaining: 4.73s
481:	learn: 0.1862092	total: 2m	remaining: 4.49s
482:	learn: 0.1861923	total: 2m	remaining: 4.24s
483:	learn: 0.1861540	total: 2m	remaining: 3.98s
484:	learn: 0.1861127	total: 2m	remaining: 3.74s
485:	learn: 0.1860604	total: 2m 1s	remaining: 3.49s
486:	learn: 0.1860374	total: 2m 1s	remaining: 3.24s
487:	learn: 0.1860165	total: 2m 1s	remaining: 2.99s
488:	learn: 0.1859075	total: 2m 1s	remaining: 2.74s
489:	learn: 0.1858798	total: 2m 1s	remaining: 2.49s
490:	learn: 0.1858187	total: 2m 2s	remaining: 2.24s
491:	learn: 0.1857391	total: 2m 2s	remaining: 1.99s
492:	learn: 0.1857067	total: 2m 2s	remaining: 1.74s
493:	learn: 0.1856911	total: 2m 2s	remaining: 1.49s
494:	learn: 0.1856037	total: 2m 3s	remaining: 1.24s
495:	learn: 0.1854638	total: 2m 3s	remaining: 994ms
496:	learn: 0.1853996	total: 2m 3s	remaining: 746ms
497:	learn: 0.1853545	total: 2m 3s	remaining: 497ms
498:	learn: 0.1853292	total: 2m 3s	remaining: 248ms
499:	learn: 0.1853074	total: 2m 4s	remaining: 0us
Learning rate set to 0.172923			
0:	learn: 0.9711334	total: 216ms	remaining: 1m 47s
1:	learn: 0.8899236	total: 446ms	remaining: 1m 50s
2:	learn: 0.8296038	total: 671ms	remaining: 1m 51s
3:	learn: 0.7202515	total: 894ms	remaining: 1m 50s
4:	learn: 0.6394514	total: 1.13s	remaining: 1m 51s
5:	learn: 0.5794753	total: 1.36s	remaining: 1m 52s

6:	learn: 0.5577888	total: 1.56s	remaining: 1m 49s
7:	learn: 0.5180823	total: 1.73s	remaining: 1m 46s
8:	learn: 0.4836463	total: 1.91s	remaining: 1m 44s
9:	learn: 0.4542784	total: 2.08s	remaining: 1m 41s
10:	learn: 0.4310445	total: 2.27s	remaining: 1m 40s
11:	learn: 0.4025131	total: 2.48s	remaining: 1m 40s
12:	learn: 0.3892689	total: 2.67s	remaining: 1m 40s
13:	learn: 0.3725392	total: 2.88s	remaining: 1m 39s
14:	learn: 0.3647154	total: 3.07s	remaining: 1m 39s
15:	learn: 0.3449917	total: 3.28s	remaining: 1m 39s
16:	learn: 0.3288428	total: 3.48s	remaining: 1m 38s
17:	learn: 0.3254386	total: 3.66s	remaining: 1m 38s
18:	learn: 0.3134165	total: 3.86s	remaining: 1m 37s
19:	learn: 0.3084506	total: 4.09s	remaining: 1m 38s
20:	learn: 0.2952016	total: 4.34s	remaining: 1m 38s
21:	learn: 0.2929947	total: 4.59s	remaining: 1m 39s
22:	learn: 0.2915211	total: 4.83s	remaining: 1m 40s
23:	learn: 0.2876243	total: 5.08s	remaining: 1m 40s
24:	learn: 0.2774668	total: 5.35s	remaining: 1m 41s
25:	learn: 0.2697870	total: 5.6s	remaining: 1m 42s
26:	learn: 0.2682041	total: 5.85s	remaining: 1m 42s
27:	learn: 0.2656822	total: 6.1s	remaining: 1m 42s
28:	learn: 0.2606610	total: 6.37s	remaining: 1m 43s
29:	learn: 0.2546238	total: 6.6s	remaining: 1m 43s
30:	learn: 0.2525802	total: 6.84s	remaining: 1m 43s
31:	learn: 0.2520101	total: 7.09s	remaining: 1m 43s
32:	learn: 0.2512874	total: 7.33s	remaining: 1m 43s
33:	learn: 0.2496684	total: 7.63s	remaining: 1m 44s
34:	learn: 0.2490102	total: 7.87s	remaining: 1m 44s
35:	learn: 0.2476880	total: 8.09s	remaining: 1m 44s
36:	learn: 0.2431289	total: 8.33s	remaining: 1m 44s
37:	learn: 0.2427760	total: 8.58s	remaining: 1m 44s
38:	learn: 0.2389060	total: 8.82s	remaining: 1m 44s
39:	learn: 0.2384369	total: 9.1s	remaining: 1m 44s
40:	learn: 0.2378768	total: 9.34s	remaining: 1m 44s
41:	learn: 0.2373917	total: 9.57s	remaining: 1m 44s
42:	learn: 0.2372233	total: 9.83s	remaining: 1m 44s
43:	learn: 0.2352704	total: 10.1s	remaining: 1m 44s
44:	learn: 0.2324198	total: 10.3s	remaining: 1m 44s
45:	learn: 0.2321255	total: 10.6s	remaining: 1m 44s
46:	learn: 0.2319491	total: 10.8s	remaining: 1m 44s
47:	learn: 0.2318435	total: 11.1s	remaining: 1m 44s
48:	learn: 0.2316536	total: 11.3s	remaining: 1m 43s
49:	learn: 0.2311515	total: 11.5s	remaining: 1m 43s
50:	learn: 0.2303372	total: 11.7s	remaining: 1m 43s
51:	learn: 0.2297714	total: 12s	remaining: 1m 43s
52:	learn: 0.2287449	total: 12.2s	remaining: 1m 42s
53:	learn: 0.2276588	total: 12.4s	remaining: 1m 42s

54:	learn: 0.2254551	total: 12.7s	remaining: 1m 42s
55:	learn: 0.2249776	total: 12.9s	remaining: 1m 42s
56:	learn: 0.2247945	total: 13.1s	remaining: 1m 42s
57:	learn: 0.2245985	total: 13.3s	remaining: 1m 41s
58:	learn: 0.2241157	total: 13.5s	remaining: 1m 41s
59:	learn: 0.2235930	total: 13.7s	remaining: 1m 40s
60:	learn: 0.2233804	total: 14s	remaining: 1m 40s
61:	learn: 0.2229497	total: 14.2s	remaining: 1m 40s
62:	learn: 0.2221715	total: 14.4s	remaining: 1m 39s
63:	learn: 0.2220601	total: 14.6s	remaining: 1m 39s
64:	learn: 0.2214298	total: 14.8s	remaining: 1m 39s
65:	learn: 0.2212880	total: 15.1s	remaining: 1m 39s
66:	learn: 0.2212701	total: 15.3s	remaining: 1m 38s
67:	learn: 0.2210678	total: 15.5s	remaining: 1m 38s
68:	learn: 0.2210169	total: 15.7s	remaining: 1m 38s
69:	learn: 0.2207674	total: 15.9s	remaining: 1m 37s
70:	learn: 0.2206478	total: 16.2s	remaining: 1m 37s
71:	learn: 0.2202432	total: 16.4s	remaining: 1m 37s
72:	learn: 0.2201035	total: 16.6s	remaining: 1m 37s
73:	learn: 0.2198123	total: 16.8s	remaining: 1m 36s
74:	learn: 0.2197000	total: 17.1s	remaining: 1m 36s
75:	learn: 0.2196779	total: 17.3s	remaining: 1m 36s
76:	learn: 0.2195844	total: 17.5s	remaining: 1m 36s
77:	learn: 0.2194968	total: 17.7s	remaining: 1m 35s
78:	learn: 0.2194312	total: 18s	remaining: 1m 35s
79:	learn: 0.2179326	total: 18.2s	remaining: 1m 35s
80:	learn: 0.2176655	total: 18.5s	remaining: 1m 35s
81:	learn: 0.2174885	total: 18.7s	remaining: 1m 35s
82:	learn: 0.2173297	total: 19s	remaining: 1m 35s
83:	learn: 0.2172980	total: 19.2s	remaining: 1m 35s
84:	learn: 0.2172628	total: 19.5s	remaining: 1m 34s
85:	learn: 0.2171378	total: 19.6s	remaining: 1m 34s
86:	learn: 0.2170483	total: 19.9s	remaining: 1m 34s
87:	learn: 0.2165681	total: 20.1s	remaining: 1m 34s
88:	learn: 0.2162783	total: 20.4s	remaining: 1m 33s
89:	learn: 0.2161826	total: 20.6s	remaining: 1m 33s
90:	learn: 0.2160009	total: 20.9s	remaining: 1m 33s
91:	learn: 0.2148960	total: 21.1s	remaining: 1m 33s
92:	learn: 0.2132258	total: 21.3s	remaining: 1m 33s
93:	learn: 0.2130840	total: 21.6s	remaining: 1m 33s
94:	learn: 0.2129792	total: 21.8s	remaining: 1m 33s
95:	learn: 0.2128049	total: 22.1s	remaining: 1m 32s
96:	learn: 0.2125657	total: 22.3s	remaining: 1m 32s
97:	learn: 0.2125472	total: 22.5s	remaining: 1m 32s
98:	learn: 0.2124190	total: 22.7s	remaining: 1m 32s
99:	learn: 0.2123720	total: 23s	remaining: 1m 31s
100:	learn: 0.2122353	total: 23.2s	remaining: 1m 31s
101:	learn: 0.2120434	total: 23.5s	remaining: 1m 31s

102:	learn: 0.2120075	total: 23.7s	remaining: 1m 31s
103:	learn: 0.2113445	total: 24s	remaining: 1m 31s
104:	learn: 0.2113218	total: 24.2s	remaining: 1m 31s
105:	learn: 0.2111348	total: 24.4s	remaining: 1m 30s
106:	learn: 0.2110604	total: 24.7s	remaining: 1m 30s
107:	learn: 0.2109969	total: 24.9s	remaining: 1m 30s
108:	learn: 0.2108721	total: 25.2s	remaining: 1m 30s
109:	learn: 0.2108163	total: 25.4s	remaining: 1m 30s
110:	learn: 0.2106772	total: 25.6s	remaining: 1m 29s
111:	learn: 0.2104795	total: 25.9s	remaining: 1m 29s
112:	learn: 0.2104051	total: 26.1s	remaining: 1m 29s
113:	learn: 0.2103257	total: 26.4s	remaining: 1m 29s
114:	learn: 0.2102353	total: 26.6s	remaining: 1m 29s
115:	learn: 0.2102123	total: 26.8s	remaining: 1m 28s
116:	learn: 0.2101657	total: 27.1s	remaining: 1m 28s
117:	learn: 0.2101299	total: 27.3s	remaining: 1m 28s
118:	learn: 0.2101072	total: 27.6s	remaining: 1m 28s
119:	learn: 0.2100708	total: 27.8s	remaining: 1m 28s
120:	learn: 0.2099505	total: 28s	remaining: 1m 27s
121:	learn: 0.2098922	total: 28.2s	remaining: 1m 27s
122:	learn: 0.2096435	total: 28.5s	remaining: 1m 27s
123:	learn: 0.2095701	total: 28.7s	remaining: 1m 26s
124:	learn: 0.2095346	total: 28.9s	remaining: 1m 26s
125:	learn: 0.2094512	total: 29.1s	remaining: 1m 26s
126:	learn: 0.2094067	total: 29.3s	remaining: 1m 26s
127:	learn: 0.2093887	total: 29.5s	remaining: 1m 25s
128:	learn: 0.2092810	total: 29.7s	remaining: 1m 25s
129:	learn: 0.2090845	total: 30s	remaining: 1m 25s
130:	learn: 0.2088764	total: 30.2s	remaining: 1m 25s
131:	learn: 0.2087440	total: 30.4s	remaining: 1m 24s
132:	learn: 0.2086396	total: 30.6s	remaining: 1m 24s
133:	learn: 0.2084340	total: 30.8s	remaining: 1m 24s
134:	learn: 0.2083619	total: 31.1s	remaining: 1m 23s
135:	learn: 0.2083071	total: 31.3s	remaining: 1m 23s
136:	learn: 0.2077358	total: 31.5s	remaining: 1m 23s
137:	learn: 0.2075808	total: 31.7s	remaining: 1m 23s
138:	learn: 0.2075168	total: 31.9s	remaining: 1m 22s
139:	learn: 0.2074767	total: 32.1s	remaining: 1m 22s
140:	learn: 0.2072986	total: 32.3s	remaining: 1m 22s
141:	learn: 0.2070988	total: 32.6s	remaining: 1m 22s
142:	learn: 0.2070732	total: 32.8s	remaining: 1m 21s
143:	learn: 0.2070047	total: 33s	remaining: 1m 21s
144:	learn: 0.2067132	total: 33.2s	remaining: 1m 21s
145:	learn: 0.2066328	total: 33.4s	remaining: 1m 20s
146:	learn: 0.2065322	total: 33.5s	remaining: 1m 20s
147:	learn: 0.2064167	total: 33.7s	remaining: 1m 20s
148:	learn: 0.2063463	total: 33.9s	remaining: 1m 19s
149:	learn: 0.2061783	total: 34.1s	remaining: 1m 19s

150:	learn: 0.2060351	total: 34.3s	remaining: 1m 19s
151:	learn: 0.2059650	total: 34.4s	remaining: 1m 18s
152:	learn: 0.2058169	total: 34.6s	remaining: 1m 18s
153:	learn: 0.2056673	total: 34.8s	remaining: 1m 18s
154:	learn: 0.2055892	total: 35s	remaining: 1m 17s
155:	learn: 0.2054824	total: 35.2s	remaining: 1m 17s
156:	learn: 0.2053886	total: 35.4s	remaining: 1m 17s
157:	learn: 0.2053738	total: 35.5s	remaining: 1m 16s
158:	learn: 0.2052497	total: 35.8s	remaining: 1m 16s
159:	learn: 0.2052171	total: 36s	remaining: 1m 16s
160:	learn: 0.2050844	total: 36.2s	remaining: 1m 16s
161:	learn: 0.2047641	total: 36.5s	remaining: 1m 16s
162:	learn: 0.2047424	total: 36.7s	remaining: 1m 15s
163:	learn: 0.2046394	total: 37s	remaining: 1m 15s
164:	learn: 0.2044094	total: 37.2s	remaining: 1m 15s
165:	learn: 0.2042918	total: 37.4s	remaining: 1m 15s
166:	learn: 0.2041994	total: 37.7s	remaining: 1m 15s
167:	learn: 0.2040928	total: 37.9s	remaining: 1m 14s
168:	learn: 0.2040212	total: 38.1s	remaining: 1m 14s
169:	learn: 0.2039093	total: 38.4s	remaining: 1m 14s
170:	learn: 0.2038712	total: 38.6s	remaining: 1m 14s
171:	learn: 0.2036769	total: 38.8s	remaining: 1m 14s
172:	learn: 0.2034839	total: 39.1s	remaining: 1m 13s
173:	learn: 0.2034339	total: 39.3s	remaining: 1m 13s
174:	learn: 0.2033938	total: 39.5s	remaining: 1m 13s
175:	learn: 0.2032502	total: 39.8s	remaining: 1m 13s
176:	learn: 0.2032012	total: 40s	remaining: 1m 13s
177:	learn: 0.2031634	total: 40.2s	remaining: 1m 12s
178:	learn: 0.2030250	total: 40.5s	remaining: 1m 12s
179:	learn: 0.2028543	total: 40.7s	remaining: 1m 12s
180:	learn: 0.2028417	total: 40.9s	remaining: 1m 12s
181:	learn: 0.2028267	total: 41.2s	remaining: 1m 11s
182:	learn: 0.2027691	total: 41.4s	remaining: 1m 11s
183:	learn: 0.2026952	total: 41.7s	remaining: 1m 11s
184:	learn: 0.2024579	total: 41.9s	remaining: 1m 11s
185:	learn: 0.2023987	total: 42.1s	remaining: 1m 11s
186:	learn: 0.2023374	total: 42.4s	remaining: 1m 10s
187:	learn: 0.2023183	total: 42.6s	remaining: 1m 10s
188:	learn: 0.2022355	total: 42.8s	remaining: 1m 10s
189:	learn: 0.2020855	total: 43.1s	remaining: 1m 10s
190:	learn: 0.2020332	total: 43.3s	remaining: 1m 10s
191:	learn: 0.2019002	total: 43.5s	remaining: 1m 9s
192:	learn: 0.2017336	total: 43.7s	remaining: 1m 9s
193:	learn: 0.2016736	total: 43.9s	remaining: 1m 9s
194:	learn: 0.2016273	total: 44.2s	remaining: 1m 9s
195:	learn: 0.2016008	total: 44.4s	remaining: 1m 8s
196:	learn: 0.2015074	total: 44.6s	remaining: 1m 8s
197:	learn: 0.2014326	total: 44.8s	remaining: 1m 8s

198:	learn: 0.2013643	total: 45.1s	remaining: 1m 8s
199:	learn: 0.2012816	total: 45.3s	remaining: 1m 7s
200:	learn: 0.2011994	total: 45.5s	remaining: 1m 7s
201:	learn: 0.2011638	total: 45.7s	remaining: 1m 7s
202:	learn: 0.2010810	total: 45.9s	remaining: 1m 7s
203:	learn: 0.2010134	total: 46.2s	remaining: 1m 6s
204:	learn: 0.2009551	total: 46.4s	remaining: 1m 6s
205:	learn: 0.2009217	total: 46.6s	remaining: 1m 6s
206:	learn: 0.2008717	total: 46.8s	remaining: 1m 6s
207:	learn: 0.2008562	total: 47s	remaining: 1m 6s
208:	learn: 0.2008405	total: 47.2s	remaining: 1m 5s
209:	learn: 0.2007290	total: 47.4s	remaining: 1m 5s
210:	learn: 0.2005075	total: 47.6s	remaining: 1m 5s
211:	learn: 0.2004466	total: 47.8s	remaining: 1m 4s
212:	learn: 0.2003613	total: 48.1s	remaining: 1m 4s
213:	learn: 0.2002998	total: 48.3s	remaining: 1m 4s
214:	learn: 0.2001269	total: 48.5s	remaining: 1m 4s
215:	learn: 0.1999918	total: 48.8s	remaining: 1m 4s
216:	learn: 0.1998967	total: 49s	remaining: 1m 3s
217:	learn: 0.1998676	total: 49.2s	remaining: 1m 3s
218:	learn: 0.1986310	total: 49.5s	remaining: 1m 3s
219:	learn: 0.1985517	total: 49.7s	remaining: 1m 3s
220:	learn: 0.1984844	total: 50s	remaining: 1m 3s
221:	learn: 0.1984061	total: 50.2s	remaining: 1m 2s
222:	learn: 0.1976928	total: 50.5s	remaining: 1m 2s
223:	learn: 0.1976414	total: 50.7s	remaining: 1m 2s
224:	learn: 0.1975696	total: 51s	remaining: 1m 2s
225:	learn: 0.1975568	total: 51.2s	remaining: 1m 2s
226:	learn: 0.1975274	total: 51.5s	remaining: 1m 1s
227:	learn: 0.1971413	total: 51.7s	remaining: 1m 1s
228:	learn: 0.1970555	total: 52s	remaining: 1m 1s
229:	learn: 0.1969166	total: 52.2s	remaining: 1m 1s
230:	learn: 0.1968890	total: 52.5s	remaining: 1m 1s
231:	learn: 0.1968578	total: 52.7s	remaining: 1m
232:	learn: 0.1963752	total: 53s	remaining: 1m
233:	learn: 0.1963399	total: 53.2s	remaining: 1m
234:	learn: 0.1963001	total: 53.4s	remaining: 1m
235:	learn: 0.1962306	total: 53.6s	remaining: 60s
236:	learn: 0.1960763	total: 53.8s	remaining: 59.8s
237:	learn: 0.1960272	total: 54.1s	remaining: 59.5s
238:	learn: 0.1959968	total: 54.3s	remaining: 59.3s
239:	learn: 0.1958917	total: 54.5s	remaining: 59.1s
240:	learn: 0.1958151	total: 54.8s	remaining: 58.9s
241:	learn: 0.1957660	total: 55s	remaining: 58.6s
242:	learn: 0.1957386	total: 55.2s	remaining: 58.4s
243:	learn: 0.1957018	total: 55.4s	remaining: 58.2s
244:	learn: 0.1955828	total: 55.7s	remaining: 58s
245:	learn: 0.1955151	total: 55.9s	remaining: 57.8s

246:	learn: 0.1954806	total: 56.2s	remaining: 57.5s
247:	learn: 0.1954251	total: 56.4s	remaining: 57.4s
248:	learn: 0.1953457	total: 56.7s	remaining: 57.2s
249:	learn: 0.1952529	total: 56.9s	remaining: 56.9s
250:	learn: 0.1952094	total: 57.2s	remaining: 56.7s
251:	learn: 0.1951770	total: 57.4s	remaining: 56.5s
252:	learn: 0.1950981	total: 57.7s	remaining: 56.3s
253:	learn: 0.1950172	total: 57.9s	remaining: 56.1s
254:	learn: 0.1949583	total: 58.1s	remaining: 55.9s
255:	learn: 0.1949147	total: 58.4s	remaining: 55.7s
256:	learn: 0.1949001	total: 58.6s	remaining: 55.4s
257:	learn: 0.1948205	total: 58.8s	remaining: 55.2s
258:	learn: 0.1947428	total: 59.1s	remaining: 55s
259:	learn: 0.1946347	total: 59.3s	remaining: 54.8s
260:	learn: 0.1945649	total: 59.6s	remaining: 54.5s
261:	learn: 0.1945018	total: 59.8s	remaining: 54.3s
262:	learn: 0.1944736	total: 1m	remaining: 54.1s
263:	learn: 0.1944567	total: 1m	remaining: 53.9s
264:	learn: 0.1943494	total: 1m	remaining: 53.6s
265:	learn: 0.1942795	total: 1m	remaining: 53.4s
266:	learn: 0.1941700	total: 1m	remaining: 53.1s
267:	learn: 0.1941538	total: 1m 1s	remaining: 52.9s
268:	learn: 0.1940050	total: 1m 1s	remaining: 52.7s
269:	learn: 0.1939832	total: 1m 1s	remaining: 52.4s
270:	learn: 0.1938589	total: 1m 1s	remaining: 52.2s
271:	learn: 0.1938456	total: 1m 2s	remaining: 52s
272:	learn: 0.1937686	total: 1m 2s	remaining: 51.7s
273:	learn: 0.1937461	total: 1m 2s	remaining: 51.5s
274:	learn: 0.1935783	total: 1m 2s	remaining: 51.3s
275:	learn: 0.1935139	total: 1m 2s	remaining: 51s
276:	learn: 0.1934780	total: 1m 3s	remaining: 50.8s
277:	learn: 0.1933848	total: 1m 3s	remaining: 50.6s
278:	learn: 0.1932683	total: 1m 3s	remaining: 50.4s
279:	learn: 0.1932248	total: 1m 3s	remaining: 50.1s
280:	learn: 0.1929933	total: 1m 4s	remaining: 49.9s
281:	learn: 0.1928545	total: 1m 4s	remaining: 49.7s
282:	learn: 0.1928128	total: 1m 4s	remaining: 49.5s
283:	learn: 0.1926643	total: 1m 4s	remaining: 49.2s
284:	learn: 0.1924818	total: 1m 4s	remaining: 49s
285:	learn: 0.1924577	total: 1m 5s	remaining: 48.8s
286:	learn: 0.1923565	total: 1m 5s	remaining: 48.5s
287:	learn: 0.1922874	total: 1m 5s	remaining: 48.3s
288:	learn: 0.1922200	total: 1m 5s	remaining: 48.1s
289:	learn: 0.1921579	total: 1m 6s	remaining: 47.9s
290:	learn: 0.1920915	total: 1m 6s	remaining: 47.7s
291:	learn: 0.1919159	total: 1m 6s	remaining: 47.4s
292:	learn: 0.1917672	total: 1m 6s	remaining: 47.2s
293:	learn: 0.1917399	total: 1m 7s	remaining: 47s

294:	learn: 0.1917018	total: 1m 7s	remaining: 46.8s
295:	learn: 0.1914012	total: 1m 7s	remaining: 46.5s
296:	learn: 0.1913675	total: 1m 7s	remaining: 46.3s
297:	learn: 0.1913202	total: 1m 7s	remaining: 46.1s
298:	learn: 0.1912057	total: 1m 8s	remaining: 45.9s
299:	learn: 0.1910769	total: 1m 8s	remaining: 45.7s
300:	learn: 0.1908999	total: 1m 8s	remaining: 45.4s
301:	learn: 0.1908391	total: 1m 8s	remaining: 45.2s
302:	learn: 0.1907517	total: 1m 9s	remaining: 45s
303:	learn: 0.1906765	total: 1m 9s	remaining: 44.8s
304:	learn: 0.1906346	total: 1m 9s	remaining: 44.6s
305:	learn: 0.1905659	total: 1m 9s	remaining: 44.3s
306:	learn: 0.1905386	total: 1m 10s	remaining: 44.1s
307:	learn: 0.1904756	total: 1m 10s	remaining: 43.9s
308:	learn: 0.1904098	total: 1m 10s	remaining: 43.7s
309:	learn: 0.1903694	total: 1m 10s	remaining: 43.4s
310:	learn: 0.1903299	total: 1m 11s	remaining: 43.2s
311:	learn: 0.1902664	total: 1m 11s	remaining: 43s
312:	learn: 0.1901686	total: 1m 11s	remaining: 42.7s
313:	learn: 0.1901187	total: 1m 11s	remaining: 42.5s
314:	learn: 0.1900593	total: 1m 12s	remaining: 42.3s
315:	learn: 0.1900212	total: 1m 12s	remaining: 42.1s
316:	learn: 0.1899813	total: 1m 12s	remaining: 41.8s
317:	learn: 0.1899102	total: 1m 12s	remaining: 41.6s
318:	learn: 0.1898450	total: 1m 12s	remaining: 41.4s
319:	learn: 0.1898297	total: 1m 13s	remaining: 41.2s
320:	learn: 0.1897983	total: 1m 13s	remaining: 40.9s
321:	learn: 0.1897206	total: 1m 13s	remaining: 40.7s
322:	learn: 0.1896432	total: 1m 13s	remaining: 40.5s
323:	learn: 0.1895862	total: 1m 14s	remaining: 40.3s
324:	learn: 0.1895159	total: 1m 14s	remaining: 40.1s
325:	learn: 0.1894929	total: 1m 14s	remaining: 39.8s
326:	learn: 0.1893470	total: 1m 14s	remaining: 39.6s
327:	learn: 0.1892887	total: 1m 15s	remaining: 39.4s
328:	learn: 0.1892535	total: 1m 15s	remaining: 39.2s
329:	learn: 0.1891295	total: 1m 15s	remaining: 38.9s
330:	learn: 0.1890353	total: 1m 15s	remaining: 38.7s
331:	learn: 0.1890146	total: 1m 16s	remaining: 38.5s
332:	learn: 0.1889033	total: 1m 16s	remaining: 38.3s
333:	learn: 0.1888138	total: 1m 16s	remaining: 38s
334:	learn: 0.1887686	total: 1m 16s	remaining: 37.8s
335:	learn: 0.1886816	total: 1m 16s	remaining: 37.5s
336:	learn: 0.1886735	total: 1m 17s	remaining: 37.3s
337:	learn: 0.1885961	total: 1m 17s	remaining: 37.1s
338:	learn: 0.1884677	total: 1m 17s	remaining: 36.8s
339:	learn: 0.1883849	total: 1m 17s	remaining: 36.6s
340:	learn: 0.1883505	total: 1m 17s	remaining: 36.4s
341:	learn: 0.1882406	total: 1m 18s	remaining: 36.1s

342:	learn: 0.1882329	total: 1m 18s	remaining: 35.9s
343:	learn: 0.1880709	total: 1m 18s	remaining: 35.7s
344:	learn: 0.1879799	total: 1m 18s	remaining: 35.4s
345:	learn: 0.1878906	total: 1m 19s	remaining: 35.2s
346:	learn: 0.1877647	total: 1m 19s	remaining: 34.9s
347:	learn: 0.1877094	total: 1m 19s	remaining: 34.7s
348:	learn: 0.1876804	total: 1m 19s	remaining: 34.5s
349:	learn: 0.1876591	total: 1m 19s	remaining: 34.2s
350:	learn: 0.1876020	total: 1m 20s	remaining: 34s
351:	learn: 0.1875136	total: 1m 20s	remaining: 33.8s
352:	learn: 0.1874913	total: 1m 20s	remaining: 33.5s
353:	learn: 0.1873537	total: 1m 20s	remaining: 33.3s
354:	learn: 0.1872654	total: 1m 20s	remaining: 33.1s
355:	learn: 0.1871641	total: 1m 21s	remaining: 32.9s
356:	learn: 0.1871035	total: 1m 21s	remaining: 32.6s
357:	learn: 0.1870430	total: 1m 21s	remaining: 32.4s
358:	learn: 0.1869791	total: 1m 21s	remaining: 32.2s
359:	learn: 0.1868936	total: 1m 22s	remaining: 32s
360:	learn: 0.1867552	total: 1m 22s	remaining: 31.7s
361:	learn: 0.1867148	total: 1m 22s	remaining: 31.5s
362:	learn: 0.1866062	total: 1m 22s	remaining: 31.3s
363:	learn: 0.1865256	total: 1m 23s	remaining: 31.1s
364:	learn: 0.1864200	total: 1m 23s	remaining: 30.9s
365:	learn: 0.1863933	total: 1m 23s	remaining: 30.6s
366:	learn: 0.1862799	total: 1m 23s	remaining: 30.4s
367:	learn: 0.1861500	total: 1m 24s	remaining: 30.2s
368:	learn: 0.1860800	total: 1m 24s	remaining: 30s
369:	learn: 0.1860745	total: 1m 24s	remaining: 29.7s
370:	learn: 0.1860300	total: 1m 24s	remaining: 29.5s
371:	learn: 0.1859915	total: 1m 25s	remaining: 29.3s
372:	learn: 0.1859451	total: 1m 25s	remaining: 29s
373:	learn: 0.1858804	total: 1m 25s	remaining: 28.8s
374:	learn: 0.1858228	total: 1m 25s	remaining: 28.6s
375:	learn: 0.1857841	total: 1m 26s	remaining: 28.4s
376:	learn: 0.1857680	total: 1m 26s	remaining: 28.1s
377:	learn: 0.1857462	total: 1m 26s	remaining: 27.9s
378:	learn: 0.1856845	total: 1m 26s	remaining: 27.7s
379:	learn: 0.1856063	total: 1m 27s	remaining: 27.5s
380:	learn: 0.1854155	total: 1m 27s	remaining: 27.3s
381:	learn: 0.1853695	total: 1m 27s	remaining: 27s
382:	learn: 0.1852963	total: 1m 27s	remaining: 26.8s
383:	learn: 0.1852481	total: 1m 27s	remaining: 26.6s
384:	learn: 0.1852268	total: 1m 28s	remaining: 26.3s
385:	learn: 0.1851724	total: 1m 28s	remaining: 26.1s
386:	learn: 0.1851160	total: 1m 28s	remaining: 25.9s
387:	learn: 0.1850839	total: 1m 28s	remaining: 25.7s
388:	learn: 0.1849682	total: 1m 29s	remaining: 25.5s
389:	learn: 0.1848845	total: 1m 29s	remaining: 25.2s

390:	learn: 0.1848142	total: 1m 29s	remaining: 25s
391:	learn: 0.1847942	total: 1m 30s	remaining: 24.8s
392:	learn: 0.1847134	total: 1m 30s	remaining: 24.6s
393:	learn: 0.1846830	total: 1m 30s	remaining: 24.4s
394:	learn: 0.1846186	total: 1m 30s	remaining: 24.1s
395:	learn: 0.1845563	total: 1m 31s	remaining: 23.9s
396:	learn: 0.1844957	total: 1m 31s	remaining: 23.7s
397:	learn: 0.1843638	total: 1m 31s	remaining: 23.5s
398:	learn: 0.1843448	total: 1m 31s	remaining: 23.2s
399:	learn: 0.1843267	total: 1m 32s	remaining: 23s
400:	learn: 0.1843033	total: 1m 32s	remaining: 22.8s
401:	learn: 0.1842448	total: 1m 32s	remaining: 22.5s
402:	learn: 0.1841732	total: 1m 32s	remaining: 22.3s
403:	learn: 0.1840863	total: 1m 32s	remaining: 22.1s
404:	learn: 0.1840388	total: 1m 33s	remaining: 21.9s
405:	learn: 0.1839695	total: 1m 33s	remaining: 21.6s
406:	learn: 0.1838962	total: 1m 33s	remaining: 21.4s
407:	learn: 0.1838338	total: 1m 33s	remaining: 21.2s
408:	learn: 0.1837453	total: 1m 34s	remaining: 20.9s
409:	learn: 0.1836820	total: 1m 34s	remaining: 20.7s
410:	learn: 0.1836202	total: 1m 34s	remaining: 20.4s
411:	learn: 0.1835264	total: 1m 34s	remaining: 20.2s
412:	learn: 0.1834431	total: 1m 34s	remaining: 20s
413:	learn: 0.1833418	total: 1m 35s	remaining: 19.8s
414:	learn: 0.1832772	total: 1m 35s	remaining: 19.5s
415:	learn: 0.1832563	total: 1m 35s	remaining: 19.3s
416:	learn: 0.1832106	total: 1m 35s	remaining: 19.1s
417:	learn: 0.1831794	total: 1m 35s	remaining: 18.8s
418:	learn: 0.1831260	total: 1m 36s	remaining: 18.6s
419:	learn: 0.1830977	total: 1m 36s	remaining: 18.4s
420:	learn: 0.1830403	total: 1m 36s	remaining: 18.1s
421:	learn: 0.1829746	total: 1m 36s	remaining: 17.9s
422:	learn: 0.1828540	total: 1m 37s	remaining: 17.7s
423:	learn: 0.1828195	total: 1m 37s	remaining: 17.4s
424:	learn: 0.1827779	total: 1m 37s	remaining: 17.2s
425:	learn: 0.1827024	total: 1m 37s	remaining: 17s
426:	learn: 0.1826395	total: 1m 38s	remaining: 16.8s
427:	learn: 0.1825815	total: 1m 38s	remaining: 16.5s
428:	learn: 0.1825362	total: 1m 38s	remaining: 16.3s
429:	learn: 0.1825044	total: 1m 38s	remaining: 16.1s
430:	learn: 0.1824278	total: 1m 39s	remaining: 15.9s
431:	learn: 0.1823406	total: 1m 39s	remaining: 15.6s
432:	learn: 0.1822505	total: 1m 39s	remaining: 15.4s
433:	learn: 0.1822376	total: 1m 39s	remaining: 15.2s
434:	learn: 0.1822172	total: 1m 39s	remaining: 14.9s
435:	learn: 0.1821756	total: 1m 40s	remaining: 14.7s
436:	learn: 0.1821556	total: 1m 40s	remaining: 14.5s
437:	learn: 0.1820602	total: 1m 40s	remaining: 14.3s

438:	learn: 0.1819471	total: 1m 40s	remaining: 14s
439:	learn: 0.1818811	total: 1m 41s	remaining: 13.8s
440:	learn: 0.1818483	total: 1m 41s	remaining: 13.6s
441:	learn: 0.1818182	total: 1m 41s	remaining: 13.3s
442:	learn: 0.1817793	total: 1m 41s	remaining: 13.1s
443:	learn: 0.1817328	total: 1m 42s	remaining: 12.9s
444:	learn: 0.1816671	total: 1m 42s	remaining: 12.7s
445:	learn: 0.1815661	total: 1m 42s	remaining: 12.4s
446:	learn: 0.1814942	total: 1m 42s	remaining: 12.2s
447:	learn: 0.1813739	total: 1m 43s	remaining: 12s
448:	learn: 0.1812637	total: 1m 43s	remaining: 11.7s
449:	learn: 0.1811866	total: 1m 43s	remaining: 11.5s
450:	learn: 0.1810317	total: 1m 43s	remaining: 11.3s
451:	learn: 0.1809313	total: 1m 44s	remaining: 11s
452:	learn: 0.1808755	total: 1m 44s	remaining: 10.8s
453:	learn: 0.1807986	total: 1m 44s	remaining: 10.6s
454:	learn: 0.1807520	total: 1m 44s	remaining: 10.4s
455:	learn: 0.1807426	total: 1m 44s	remaining: 10.1s
456:	learn: 0.1806920	total: 1m 45s	remaining: 9.9s
457:	learn: 0.1806478	total: 1m 45s	remaining: 9.67s
458:	learn: 0.1806156	total: 1m 45s	remaining: 9.44s
459:	learn: 0.1805632	total: 1m 46s	remaining: 9.22s
460:	learn: 0.1805166	total: 1m 46s	remaining: 8.99s
461:	learn: 0.1805118	total: 1m 46s	remaining: 8.76s
462:	learn: 0.1804858	total: 1m 46s	remaining: 8.52s
463:	learn: 0.1803590	total: 1m 46s	remaining: 8.29s
464:	learn: 0.1803308	total: 1m 47s	remaining: 8.06s
465:	learn: 0.1803120	total: 1m 47s	remaining: 7.83s
466:	learn: 0.1802877	total: 1m 47s	remaining: 7.6s
467:	learn: 0.1802177	total: 1m 47s	remaining: 7.37s
468:	learn: 0.1801772	total: 1m 48s	remaining: 7.14s
469:	learn: 0.1801197	total: 1m 48s	remaining: 6.91s
470:	learn: 0.1800733	total: 1m 48s	remaining: 6.68s
471:	learn: 0.1800097	total: 1m 48s	remaining: 6.45s
472:	learn: 0.1799880	total: 1m 48s	remaining: 6.21s
473:	learn: 0.1799593	total: 1m 49s	remaining: 5.98s
474:	learn: 0.1798870	total: 1m 49s	remaining: 5.75s
475:	learn: 0.1798600	total: 1m 49s	remaining: 5.52s
476:	learn: 0.1797600	total: 1m 49s	remaining: 5.29s
477:	learn: 0.1797241	total: 1m 49s	remaining: 5.06s
478:	learn: 0.1796259	total: 1m 50s	remaining: 4.83s
479:	learn: 0.1795739	total: 1m 50s	remaining: 4.6s
480:	learn: 0.1795174	total: 1m 50s	remaining: 4.37s
481:	learn: 0.1793963	total: 1m 50s	remaining: 4.14s
482:	learn: 0.1793415	total: 1m 51s	remaining: 3.91s
483:	learn: 0.1793365	total: 1m 51s	remaining: 3.68s
484:	learn: 0.1792997	total: 1m 51s	remaining: 3.45s
485:	learn: 0.1792872	total: 1m 51s	remaining: 3.22s

486:	learn: 0.1792373	total: 1m 51s	remaining: 2.99s
487:	learn: 0.1791948	total: 1m 52s	remaining: 2.76s
488:	learn: 0.1791660	total: 1m 52s	remaining: 2.53s
489:	learn: 0.1790966	total: 1m 52s	remaining: 2.3s
490:	learn: 0.1790789	total: 1m 52s	remaining: 2.07s
491:	learn: 0.1790388	total: 1m 53s	remaining: 1.84s
492:	learn: 0.1790153	total: 1m 53s	remaining: 1.61s
493:	learn: 0.1789542	total: 1m 53s	remaining: 1.38s
494:	learn: 0.1788700	total: 1m 53s	remaining: 1.15s
495:	learn: 0.1788364	total: 1m 54s	remaining: 920ms
496:	learn: 0.1787828	total: 1m 54s	remaining: 690ms
497:	learn: 0.1787544	total: 1m 54s	remaining: 460ms
498:	learn: 0.1787060	total: 1m 54s	remaining: 230ms
499:	learn: 0.1786841	total: 1m 55s	remaining: 0us

Learning rate set to 0.172923

0:	learn: 0.9716557	total: 276ms	remaining: 2m 17s
1:	learn: 0.8895613	total: 544ms	remaining: 2m 15s
2:	learn: 0.8301478	total: 761ms	remaining: 2m 6s
3:	learn: 0.7155225	total: 1.02s	remaining: 2m 6s
4:	learn: 0.6319274	total: 1.23s	remaining: 2m 1s
5:	learn: 0.5699472	total: 1.42s	remaining: 1m 56s
6:	learn: 0.5243102	total: 1.57s	remaining: 1m 50s
7:	learn: 0.5045321	total: 1.76s	remaining: 1m 48s
8:	learn: 0.4899787	total: 1.93s	remaining: 1m 45s
9:	learn: 0.4479828	total: 2.12s	remaining: 1m 43s
10:	learn: 0.4251463	total: 2.31s	remaining: 1m 42s
11:	learn: 0.4177008	total: 2.48s	remaining: 1m 40s
12:	learn: 0.3985502	total: 2.67s	remaining: 1m 39s
13:	learn: 0.3769396	total: 2.85s	remaining: 1m 38s
14:	learn: 0.3670662	total: 3.03s	remaining: 1m 38s
15:	learn: 0.3629479	total: 3.23s	remaining: 1m 37s
16:	learn: 0.3474098	total: 3.44s	remaining: 1m 37s
17:	learn: 0.3339127	total: 3.67s	remaining: 1m 38s
18:	learn: 0.3220479	total: 3.89s	remaining: 1m 38s
19:	learn: 0.3129938	total: 4.11s	remaining: 1m 38s
20:	learn: 0.3056654	total: 4.34s	remaining: 1m 39s
21:	learn: 0.2995873	total: 4.58s	remaining: 1m 39s
22:	learn: 0.2925987	total: 4.83s	remaining: 1m 40s
23:	learn: 0.2836333	total: 5.07s	remaining: 1m 40s
24:	learn: 0.2805562	total: 5.31s	remaining: 1m 40s
25:	learn: 0.2734250	total: 5.56s	remaining: 1m 41s
26:	learn: 0.2723861	total: 5.83s	remaining: 1m 42s
27:	learn: 0.2717729	total: 6.06s	remaining: 1m 42s
28:	learn: 0.2703254	total: 6.31s	remaining: 1m 42s
29:	learn: 0.2697266	total: 6.55s	remaining: 1m 42s
30:	learn: 0.2682519	total: 6.82s	remaining: 1m 43s
31:	learn: 0.2674493	total: 7.03s	remaining: 1m 42s
32:	learn: 0.2620732	total: 7.29s	remaining: 1m 43s

33:	learn: 0.2576637	total: 7.53s	remaining: 1m 43s
34:	learn: 0.2571225	total: 7.78s	remaining: 1m 43s
35:	learn: 0.2528181	total: 7.98s	remaining: 1m 42s
36:	learn: 0.2495072	total: 8.18s	remaining: 1m 42s
37:	learn: 0.2468017	total: 8.42s	remaining: 1m 42s
38:	learn: 0.2450488	total: 8.63s	remaining: 1m 42s
39:	learn: 0.2446270	total: 8.85s	remaining: 1m 41s
40:	learn: 0.2442620	total: 9.08s	remaining: 1m 41s
41:	learn: 0.2437109	total: 9.31s	remaining: 1m 41s
42:	learn: 0.2435241	total: 9.52s	remaining: 1m 41s
43:	learn: 0.2432770	total: 9.75s	remaining: 1m 41s
44:	learn: 0.2420706	total: 9.99s	remaining: 1m 40s
45:	learn: 0.2417189	total: 10.2s	remaining: 1m 40s
46:	learn: 0.2413886	total: 10.4s	remaining: 1m 40s
47:	learn: 0.2409897	total: 10.6s	remaining: 1m 40s
48:	learn: 0.2408148	total: 10.9s	remaining: 1m 39s
49:	learn: 0.2405387	total: 11.1s	remaining: 1m 39s
50:	learn: 0.2398246	total: 11.3s	remaining: 1m 39s
51:	learn: 0.2396177	total: 11.5s	remaining: 1m 39s
52:	learn: 0.2395500	total: 11.8s	remaining: 1m 39s
53:	learn: 0.2394419	total: 12s	remaining: 1m 39s
54:	learn: 0.2392890	total: 12.2s	remaining: 1m 38s
55:	learn: 0.2390769	total: 12.4s	remaining: 1m 38s
56:	learn: 0.2389219	total: 12.7s	remaining: 1m 38s
57:	learn: 0.2386480	total: 12.9s	remaining: 1m 38s
58:	learn: 0.2384313	total: 13.1s	remaining: 1m 38s
59:	learn: 0.2379404	total: 13.4s	remaining: 1m 38s
60:	learn: 0.2375496	total: 13.7s	remaining: 1m 38s
61:	learn: 0.2351105	total: 13.9s	remaining: 1m 38s
62:	learn: 0.2349538	total: 14.2s	remaining: 1m 38s
63:	learn: 0.2348436	total: 14.5s	remaining: 1m 38s
64:	learn: 0.2347275	total: 14.8s	remaining: 1m 38s
65:	learn: 0.2344997	total: 15.1s	remaining: 1m 39s
66:	learn: 0.2343619	total: 15.3s	remaining: 1m 38s
67:	learn: 0.2323655	total: 15.6s	remaining: 1m 38s
68:	learn: 0.2322368	total: 15.8s	remaining: 1m 38s
69:	learn: 0.2320392	total: 16.1s	remaining: 1m 38s
70:	learn: 0.2319895	total: 16.3s	remaining: 1m 38s
71:	learn: 0.2318506	total: 16.5s	remaining: 1m 38s
72:	learn: 0.2316738	total: 16.8s	remaining: 1m 38s
73:	learn: 0.2315723	total: 17s	remaining: 1m 37s
74:	learn: 0.2314253	total: 17.3s	remaining: 1m 37s
75:	learn: 0.2313764	total: 17.5s	remaining: 1m 37s
76:	learn: 0.2312599	total: 17.7s	remaining: 1m 37s
77:	learn: 0.2308918	total: 18s	remaining: 1m 37s
78:	learn: 0.2304426	total: 18.2s	remaining: 1m 37s
79:	learn: 0.2303574	total: 18.5s	remaining: 1m 37s
80:	learn: 0.2301518	total: 18.7s	remaining: 1m 36s

81:	learn: 0.2284806	total: 19s	remaining: 1m 36s
82:	learn: 0.2283070	total: 19.2s	remaining: 1m 36s
83:	learn: 0.2281651	total: 19.5s	remaining: 1m 36s
84:	learn: 0.2275154	total: 19.8s	remaining: 1m 36s
85:	learn: 0.2274443	total: 20s	remaining: 1m 36s
86:	learn: 0.2270736	total: 20.3s	remaining: 1m 36s
87:	learn: 0.2268617	total: 20.5s	remaining: 1m 36s
88:	learn: 0.2267441	total: 20.8s	remaining: 1m 35s
89:	learn: 0.2266530	total: 21s	remaining: 1m 35s
90:	learn: 0.2264841	total: 21.2s	remaining: 1m 35s
91:	learn: 0.2263813	total: 21.5s	remaining: 1m 35s
92:	learn: 0.2261711	total: 21.7s	remaining: 1m 34s
93:	learn: 0.2261017	total: 21.9s	remaining: 1m 34s
94:	learn: 0.2259516	total: 22.2s	remaining: 1m 34s
95:	learn: 0.2247409	total: 22.4s	remaining: 1m 34s
96:	learn: 0.2245356	total: 22.7s	remaining: 1m 34s
97:	learn: 0.2244294	total: 22.9s	remaining: 1m 33s
98:	learn: 0.2243548	total: 23.2s	remaining: 1m 33s
99:	learn: 0.2241237	total: 23.4s	remaining: 1m 33s
100:	learn: 0.2240366	total: 23.7s	remaining: 1m 33s
101:	learn: 0.2239388	total: 23.9s	remaining: 1m 33s
102:	learn: 0.2237752	total: 24.1s	remaining: 1m 32s
103:	learn: 0.2237115	total: 24.4s	remaining: 1m 32s
104:	learn: 0.2234903	total: 24.6s	remaining: 1m 32s
105:	learn: 0.2234014	total: 24.8s	remaining: 1m 32s
106:	learn: 0.2233470	total: 25s	remaining: 1m 31s
107:	learn: 0.2231537	total: 25.2s	remaining: 1m 31s
108:	learn: 0.2230090	total: 25.4s	remaining: 1m 31s
109:	learn: 0.2229430	total: 25.7s	remaining: 1m 30s
110:	learn: 0.2227477	total: 25.9s	remaining: 1m 30s
111:	learn: 0.2226959	total: 26.1s	remaining: 1m 30s
112:	learn: 0.2226252	total: 26.3s	remaining: 1m 29s
113:	learn: 0.2225213	total: 26.5s	remaining: 1m 29s
114:	learn: 0.2222595	total: 26.7s	remaining: 1m 29s
115:	learn: 0.2222372	total: 26.9s	remaining: 1m 29s
116:	learn: 0.2219936	total: 27.1s	remaining: 1m 28s
117:	learn: 0.2218866	total: 27.4s	remaining: 1m 28s
118:	learn: 0.2216947	total: 27.6s	remaining: 1m 28s
119:	learn: 0.2215462	total: 27.8s	remaining: 1m 28s
120:	learn: 0.2214524	total: 28s	remaining: 1m 27s
121:	learn: 0.2213825	total: 28.2s	remaining: 1m 27s
122:	learn: 0.2212841	total: 28.5s	remaining: 1m 27s
123:	learn: 0.2211655	total: 28.7s	remaining: 1m 26s
124:	learn: 0.2210373	total: 28.9s	remaining: 1m 26s
125:	learn: 0.2209141	total: 29.2s	remaining: 1m 26s
126:	learn: 0.2208309	total: 29.4s	remaining: 1m 26s
127:	learn: 0.2207877	total: 29.6s	remaining: 1m 26s
128:	learn: 0.2207297	total: 29.9s	remaining: 1m 25s

129:	learn: 0.2206764	total: 30.1s	remaining: 1m 25s
130:	learn: 0.2205133	total: 30.4s	remaining: 1m 25s
131:	learn: 0.2204057	total: 30.6s	remaining: 1m 25s
132:	learn: 0.2203289	total: 30.9s	remaining: 1m 25s
133:	learn: 0.2201520	total: 31.1s	remaining: 1m 24s
134:	learn: 0.2200417	total: 31.4s	remaining: 1m 24s
135:	learn: 0.2198476	total: 31.6s	remaining: 1m 24s
136:	learn: 0.2198077	total: 31.9s	remaining: 1m 24s
137:	learn: 0.2194366	total: 32.1s	remaining: 1m 24s
138:	learn: 0.2192744	total: 32.3s	remaining: 1m 23s
139:	learn: 0.2192294	total: 32.6s	remaining: 1m 23s
140:	learn: 0.2191436	total: 32.8s	remaining: 1m 23s
141:	learn: 0.2189867	total: 33.1s	remaining: 1m 23s
142:	learn: 0.2189134	total: 33.3s	remaining: 1m 23s
143:	learn: 0.2188037	total: 33.5s	remaining: 1m 22s
144:	learn: 0.2187383	total: 33.8s	remaining: 1m 22s
145:	learn: 0.2186879	total: 34s	remaining: 1m 22s
146:	learn: 0.2185900	total: 34.3s	remaining: 1m 22s
147:	learn: 0.2184071	total: 34.5s	remaining: 1m 22s
148:	learn: 0.2183512	total: 34.8s	remaining: 1m 21s
149:	learn: 0.2182602	total: 35s	remaining: 1m 21s
150:	learn: 0.2181694	total: 35.3s	remaining: 1m 21s
151:	learn: 0.2180462	total: 35.5s	remaining: 1m 21s
152:	learn: 0.2177706	total: 35.8s	remaining: 1m 21s
153:	learn: 0.2175094	total: 36s	remaining: 1m 20s
154:	learn: 0.2173947	total: 36.2s	remaining: 1m 20s
155:	learn: 0.2173577	total: 36.5s	remaining: 1m 20s
156:	learn: 0.2172844	total: 36.7s	remaining: 1m 20s
157:	learn: 0.2172706	total: 36.9s	remaining: 1m 19s
158:	learn: 0.2171607	total: 37.1s	remaining: 1m 19s
159:	learn: 0.2170622	total: 37.4s	remaining: 1m 19s
160:	learn: 0.2169941	total: 37.6s	remaining: 1m 19s
161:	learn: 0.2168660	total: 37.9s	remaining: 1m 19s
162:	learn: 0.2168354	total: 38.1s	remaining: 1m 18s
163:	learn: 0.2166891	total: 38.3s	remaining: 1m 18s
164:	learn: 0.2165751	total: 38.6s	remaining: 1m 18s
165:	learn: 0.2165022	total: 38.8s	remaining: 1m 18s
166:	learn: 0.2164593	total: 39s	remaining: 1m 17s
167:	learn: 0.2163746	total: 39.2s	remaining: 1m 17s
168:	learn: 0.2161986	total: 39.5s	remaining: 1m 17s
169:	learn: 0.2160945	total: 39.7s	remaining: 1m 17s
170:	learn: 0.2160025	total: 39.9s	remaining: 1m 16s
171:	learn: 0.2159844	total: 40.1s	remaining: 1m 16s
172:	learn: 0.2159520	total: 40.3s	remaining: 1m 16s
173:	learn: 0.2157380	total: 40.5s	remaining: 1m 15s
174:	learn: 0.2156634	total: 40.7s	remaining: 1m 15s
175:	learn: 0.2154690	total: 40.9s	remaining: 1m 15s
176:	learn: 0.2153008	total: 41.2s	remaining: 1m 15s

177:	learn: 0.2151693	total: 41.4s	remaining: 1m 14s
178:	learn: 0.2151270	total: 41.6s	remaining: 1m 14s
179:	learn: 0.2150486	total: 41.8s	remaining: 1m 14s
180:	learn: 0.2149097	total: 42s	remaining: 1m 14s
181:	learn: 0.2148481	total: 42.2s	remaining: 1m 13s
182:	learn: 0.2147871	total: 42.5s	remaining: 1m 13s
183:	learn: 0.2147101	total: 42.7s	remaining: 1m 13s
184:	learn: 0.2146861	total: 42.9s	remaining: 1m 13s
185:	learn: 0.2146525	total: 43.1s	remaining: 1m 12s
186:	learn: 0.2146210	total: 43.4s	remaining: 1m 12s
187:	learn: 0.2145790	total: 43.6s	remaining: 1m 12s
188:	learn: 0.2145087	total: 43.8s	remaining: 1m 12s
189:	learn: 0.2144655	total: 44s	remaining: 1m 11s
190:	learn: 0.2144290	total: 44.1s	remaining: 1m 11s
191:	learn: 0.2143512	total: 44.3s	remaining: 1m 11s
192:	learn: 0.2142655	total: 44.5s	remaining: 1m 10s
193:	learn: 0.2142102	total: 44.6s	remaining: 1m 10s
194:	learn: 0.2140874	total: 44.8s	remaining: 1m 10s
195:	learn: 0.2139919	total: 45s	remaining: 1m 9s
196:	learn: 0.2138947	total: 45.1s	remaining: 1m 9s
197:	learn: 0.2137583	total: 45.3s	remaining: 1m 9s
198:	learn: 0.2137360	total: 45.5s	remaining: 1m 8s
199:	learn: 0.2136678	total: 45.7s	remaining: 1m 8s
200:	learn: 0.2135509	total: 45.9s	remaining: 1m 8s
201:	learn: 0.2134839	total: 46.1s	remaining: 1m 7s
202:	learn: 0.2133846	total: 46.2s	remaining: 1m 7s
203:	learn: 0.2133734	total: 46.5s	remaining: 1m 7s
204:	learn: 0.2133628	total: 46.6s	remaining: 1m 7s
205:	learn: 0.2133030	total: 46.9s	remaining: 1m 6s
206:	learn: 0.2132220	total: 47.1s	remaining: 1m 6s
207:	learn: 0.2130695	total: 47.4s	remaining: 1m 6s
208:	learn: 0.2129800	total: 47.6s	remaining: 1m 6s
209:	learn: 0.2129435	total: 47.8s	remaining: 1m 6s
210:	learn: 0.2128579	total: 48.1s	remaining: 1m 5s
211:	learn: 0.2126895	total: 48.4s	remaining: 1m 5s
212:	learn: 0.2125966	total: 48.6s	remaining: 1m 5s
213:	learn: 0.2125240	total: 48.9s	remaining: 1m 5s
214:	learn: 0.2124346	total: 49.1s	remaining: 1m 5s
215:	learn: 0.2123787	total: 49.4s	remaining: 1m 4s
216:	learn: 0.2123381	total: 49.7s	remaining: 1m 4s
217:	learn: 0.2121844	total: 49.9s	remaining: 1m 4s
218:	learn: 0.2121086	total: 50.2s	remaining: 1m 4s
219:	learn: 0.2120665	total: 50.4s	remaining: 1m 4s
220:	learn: 0.2119947	total: 50.7s	remaining: 1m 3s
221:	learn: 0.2118728	total: 50.9s	remaining: 1m 3s
222:	learn: 0.2118332	total: 51.1s	remaining: 1m 3s
223:	learn: 0.2117395	total: 51.4s	remaining: 1m 3s
224:	learn: 0.2117096	total: 51.6s	remaining: 1m 3s

225:	learn: 0.2116584	total: 51.9s	remaining: 1m 2s
226:	learn: 0.2116059	total: 52.1s	remaining: 1m 2s
227:	learn: 0.2115423	total: 52.4s	remaining: 1m 2s
228:	learn: 0.2114733	total: 52.6s	remaining: 1m 2s
229:	learn: 0.2114413	total: 52.9s	remaining: 1m 2s
230:	learn: 0.2112942	total: 53.1s	remaining: 1m 1s
231:	learn: 0.2112436	total: 53.4s	remaining: 1m 1s
232:	learn: 0.2111722	total: 53.6s	remaining: 1m 1s
233:	learn: 0.2111066	total: 53.8s	remaining: 1m 1s
234:	learn: 0.2109943	total: 54.1s	remaining: 1m
235:	learn: 0.2109550	total: 54.4s	remaining: 1m
236:	learn: 0.2107889	total: 54.6s	remaining: 1m
237:	learn: 0.2107158	total: 54.9s	remaining: 1m
238:	learn: 0.2106590	total: 55.2s	remaining: 1m
239:	learn: 0.2105073	total: 55.4s	remaining: 1m
240:	learn: 0.2104797	total: 55.7s	remaining: 59.8s
241:	learn: 0.2103374	total: 55.9s	remaining: 59.6s
242:	learn: 0.2102930	total: 56.2s	remaining: 59.4s
243:	learn: 0.2102354	total: 56.4s	remaining: 59.2s
244:	learn: 0.2102316	total: 56.6s	remaining: 58.9s
245:	learn: 0.2102070	total: 56.8s	remaining: 58.6s
246:	learn: 0.2100737	total: 57s	remaining: 58.4s
247:	learn: 0.2099666	total: 57.2s	remaining: 58.2s
248:	learn: 0.2099281	total: 57.4s	remaining: 57.9s
249:	learn: 0.2098225	total: 57.6s	remaining: 57.6s
250:	learn: 0.2097573	total: 57.8s	remaining: 57.4s
251:	learn: 0.2096501	total: 58s	remaining: 57.1s
252:	learn: 0.2095821	total: 58.2s	remaining: 56.9s
253:	learn: 0.2095256	total: 58.5s	remaining: 56.6s
254:	learn: 0.2094712	total: 58.7s	remaining: 56.4s
255:	learn: 0.2094164	total: 58.9s	remaining: 56.1s
256:	learn: 0.2093330	total: 59.1s	remaining: 55.9s
257:	learn: 0.2092567	total: 59.4s	remaining: 55.7s
258:	learn: 0.2091554	total: 59.6s	remaining: 55.5s
259:	learn: 0.2091001	total: 59.8s	remaining: 55.2s
260:	learn: 0.2090531	total: 1m	remaining: 55s
261:	learn: 0.2090211	total: 1m	remaining: 54.7s
262:	learn: 0.2089519	total: 1m	remaining: 54.5s
263:	learn: 0.2088927	total: 1m	remaining: 54.2s
264:	learn: 0.2088445	total: 1m	remaining: 54s
265:	learn: 0.2088088	total: 1m 1s	remaining: 53.8s
266:	learn: 0.2087123	total: 1m 1s	remaining: 53.5s
267:	learn: 0.2086569	total: 1m 1s	remaining: 53.2s
268:	learn: 0.2085803	total: 1m 1s	remaining: 52.9s
269:	learn: 0.2085595	total: 1m 1s	remaining: 52.7s
270:	learn: 0.2084908	total: 1m 2s	remaining: 52.4s
271:	learn: 0.2084070	total: 1m 2s	remaining: 52.1s
272:	learn: 0.2083578	total: 1m 2s	remaining: 51.8s

273:	learn: 0.2083215	total: 1m 2s	remaining: 51.6s
274:	learn: 0.2082884	total: 1m 2s	remaining: 51.3s
275:	learn: 0.2082099	total: 1m 2s	remaining: 51.1s
276:	learn: 0.2081474	total: 1m 3s	remaining: 50.8s
277:	learn: 0.2080541	total: 1m 3s	remaining: 50.5s
278:	learn: 0.2079739	total: 1m 3s	remaining: 50.3s
279:	learn: 0.2079385	total: 1m 3s	remaining: 50s
280:	learn: 0.2077744	total: 1m 3s	remaining: 49.8s
281:	learn: 0.2077006	total: 1m 4s	remaining: 49.6s
282:	learn: 0.2076824	total: 1m 4s	remaining: 49.4s
283:	learn: 0.2076509	total: 1m 4s	remaining: 49.1s
284:	learn: 0.2076105	total: 1m 4s	remaining: 48.9s
285:	learn: 0.2075213	total: 1m 5s	remaining: 48.7s
286:	learn: 0.2074428	total: 1m 5s	remaining: 48.5s
287:	learn: 0.2073864	total: 1m 5s	remaining: 48.3s
288:	learn: 0.2072680	total: 1m 5s	remaining: 48s
289:	learn: 0.2072144	total: 1m 6s	remaining: 47.8s
290:	learn: 0.2071301	total: 1m 6s	remaining: 47.6s
291:	learn: 0.2070200	total: 1m 6s	remaining: 47.4s
292:	learn: 0.2068714	total: 1m 6s	remaining: 47.3s
293:	learn: 0.2067210	total: 1m 7s	remaining: 47s
294:	learn: 0.2067019	total: 1m 7s	remaining: 46.8s
295:	learn: 0.2066417	total: 1m 7s	remaining: 46.6s
296:	learn: 0.2065541	total: 1m 7s	remaining: 46.4s
297:	learn: 0.2064676	total: 1m 8s	remaining: 46.2s
298:	learn: 0.2064192	total: 1m 8s	remaining: 46.1s
299:	learn: 0.2063412	total: 1m 8s	remaining: 45.9s
300:	learn: 0.2062665	total: 1m 9s	remaining: 45.6s
301:	learn: 0.2061686	total: 1m 9s	remaining: 45.4s
302:	learn: 0.2060934	total: 1m 9s	remaining: 45.2s
303:	learn: 0.2060234	total: 1m 9s	remaining: 45s
304:	learn: 0.2060128	total: 1m 9s	remaining: 44.7s
305:	learn: 0.2059884	total: 1m 10s	remaining: 44.5s
306:	learn: 0.2059522	total: 1m 10s	remaining: 44.3s
307:	learn: 0.2059228	total: 1m 10s	remaining: 44s
308:	learn: 0.2058342	total: 1m 10s	remaining: 43.8s
309:	learn: 0.2057517	total: 1m 11s	remaining: 43.6s
310:	learn: 0.2056271	total: 1m 11s	remaining: 43.4s
311:	learn: 0.2055889	total: 1m 11s	remaining: 43.1s
312:	learn: 0.2055191	total: 1m 11s	remaining: 42.9s
313:	learn: 0.2053825	total: 1m 12s	remaining: 42.7s
314:	learn: 0.2053331	total: 1m 12s	remaining: 42.5s
315:	learn: 0.2053141	total: 1m 12s	remaining: 42.2s
316:	learn: 0.2052364	total: 1m 12s	remaining: 42s
317:	learn: 0.2051118	total: 1m 13s	remaining: 41.9s
318:	learn: 0.2050210	total: 1m 13s	remaining: 41.6s
319:	learn: 0.2049999	total: 1m 13s	remaining: 41.4s
320:	learn: 0.2049391	total: 1m 13s	remaining: 41.1s

321:	learn: 0.2048450	total: 1m 14s	remaining: 40.9s
322:	learn: 0.2047863	total: 1m 14s	remaining: 40.7s
323:	learn: 0.2047643	total: 1m 14s	remaining: 40.4s
324:	learn: 0.2047273	total: 1m 14s	remaining: 40.2s
325:	learn: 0.2046882	total: 1m 14s	remaining: 40s
326:	learn: 0.2045788	total: 1m 15s	remaining: 39.8s
327:	learn: 0.2045053	total: 1m 15s	remaining: 39.5s
328:	learn: 0.2044615	total: 1m 15s	remaining: 39.3s
329:	learn: 0.2044417	total: 1m 15s	remaining: 39s
330:	learn: 0.2043475	total: 1m 16s	remaining: 38.8s
331:	learn: 0.2042788	total: 1m 16s	remaining: 38.6s
332:	learn: 0.2042572	total: 1m 16s	remaining: 38.3s
333:	learn: 0.2041552	total: 1m 16s	remaining: 38.1s
334:	learn: 0.2041143	total: 1m 16s	remaining: 37.8s
335:	learn: 0.2040712	total: 1m 17s	remaining: 37.6s
336:	learn: 0.2039786	total: 1m 17s	remaining: 37.4s
337:	learn: 0.2039192	total: 1m 17s	remaining: 37.2s
338:	learn: 0.2038503	total: 1m 17s	remaining: 37s
339:	learn: 0.2038070	total: 1m 18s	remaining: 36.7s
340:	learn: 0.2037740	total: 1m 18s	remaining: 36.5s
341:	learn: 0.2036641	total: 1m 18s	remaining: 36.3s
342:	learn: 0.2035651	total: 1m 18s	remaining: 36.1s
343:	learn: 0.2035434	total: 1m 19s	remaining: 35.8s
344:	learn: 0.2035287	total: 1m 19s	remaining: 35.6s
345:	learn: 0.2034166	total: 1m 19s	remaining: 35.4s
346:	learn: 0.2033562	total: 1m 19s	remaining: 35.2s
347:	learn: 0.2033028	total: 1m 20s	remaining: 35s
348:	learn: 0.2032494	total: 1m 20s	remaining: 34.7s
349:	learn: 0.2031799	total: 1m 20s	remaining: 34.5s
350:	learn: 0.2031528	total: 1m 20s	remaining: 34.3s
351:	learn: 0.2031170	total: 1m 21s	remaining: 34.1s
352:	learn: 0.2031030	total: 1m 21s	remaining: 33.8s
353:	learn: 0.2030112	total: 1m 21s	remaining: 33.6s
354:	learn: 0.2029927	total: 1m 21s	remaining: 33.4s
355:	learn: 0.2028677	total: 1m 22s	remaining: 33.2s
356:	learn: 0.2028341	total: 1m 22s	remaining: 32.9s
357:	learn: 0.2027800	total: 1m 22s	remaining: 32.7s
358:	learn: 0.2026782	total: 1m 22s	remaining: 32.5s
359:	learn: 0.2026144	total: 1m 22s	remaining: 32.3s
360:	learn: 0.2025533	total: 1m 23s	remaining: 32s
361:	learn: 0.2025155	total: 1m 23s	remaining: 31.8s
362:	learn: 0.2024883	total: 1m 23s	remaining: 31.6s
363:	learn: 0.2023455	total: 1m 23s	remaining: 31.4s
364:	learn: 0.2023061	total: 1m 24s	remaining: 31.1s
365:	learn: 0.2022578	total: 1m 24s	remaining: 30.9s
366:	learn: 0.2022222	total: 1m 24s	remaining: 30.7s
367:	learn: 0.2021529	total: 1m 24s	remaining: 30.5s
368:	learn: 0.2021053	total: 1m 25s	remaining: 30.2s

369:	learn: 0.2020133	total: 1m 25s	remaining: 30s
370:	learn: 0.2019505	total: 1m 25s	remaining: 29.8s
371:	learn: 0.2018773	total: 1m 25s	remaining: 29.6s
372:	learn: 0.2018216	total: 1m 26s	remaining: 29.4s
373:	learn: 0.2017712	total: 1m 26s	remaining: 29.1s
374:	learn: 0.2017126	total: 1m 26s	remaining: 28.9s
375:	learn: 0.2016671	total: 1m 27s	remaining: 28.7s
376:	learn: 0.2016156	total: 1m 27s	remaining: 28.5s
377:	learn: 0.2013056	total: 1m 27s	remaining: 28.2s
378:	learn: 0.2012371	total: 1m 27s	remaining: 28s
379:	learn: 0.2011495	total: 1m 28s	remaining: 27.8s
380:	learn: 0.2011268	total: 1m 28s	remaining: 27.6s
381:	learn: 0.2009526	total: 1m 28s	remaining: 27.3s
382:	learn: 0.2008750	total: 1m 28s	remaining: 27.1s
383:	learn: 0.2008309	total: 1m 28s	remaining: 26.9s
384:	learn: 0.2007562	total: 1m 29s	remaining: 26.7s
385:	learn: 0.2006997	total: 1m 29s	remaining: 26.4s
386:	learn: 0.2006447	total: 1m 29s	remaining: 26.2s
387:	learn: 0.2005758	total: 1m 29s	remaining: 26s
388:	learn: 0.2005373	total: 1m 30s	remaining: 25.7s
389:	learn: 0.2004790	total: 1m 30s	remaining: 25.5s
390:	learn: 0.2004174	total: 1m 30s	remaining: 25.3s
391:	learn: 0.2001778	total: 1m 30s	remaining: 25s
392:	learn: 0.2001449	total: 1m 31s	remaining: 24.8s
393:	learn: 0.2000722	total: 1m 31s	remaining: 24.5s
394:	learn: 0.2000236	total: 1m 31s	remaining: 24.3s
395:	learn: 0.1999763	total: 1m 31s	remaining: 24.1s
396:	learn: 0.1999145	total: 1m 31s	remaining: 23.8s
397:	learn: 0.1998509	total: 1m 32s	remaining: 23.6s
398:	learn: 0.1998196	total: 1m 32s	remaining: 23.4s
399:	learn: 0.1997910	total: 1m 32s	remaining: 23.1s
400:	learn: 0.1997525	total: 1m 32s	remaining: 22.9s
401:	learn: 0.1996730	total: 1m 32s	remaining: 22.7s
402:	learn: 0.1995735	total: 1m 33s	remaining: 22.4s
403:	learn: 0.1995232	total: 1m 33s	remaining: 22.2s
404:	learn: 0.1994050	total: 1m 33s	remaining: 22s
405:	learn: 0.1993411	total: 1m 34s	remaining: 21.8s
406:	learn: 0.1993039	total: 1m 34s	remaining: 21.6s
407:	learn: 0.1992859	total: 1m 34s	remaining: 21.3s
408:	learn: 0.1992703	total: 1m 34s	remaining: 21.1s
409:	learn: 0.1992466	total: 1m 35s	remaining: 20.9s
410:	learn: 0.1991742	total: 1m 35s	remaining: 20.6s
411:	learn: 0.1991083	total: 1m 35s	remaining: 20.4s
412:	learn: 0.1990409	total: 1m 35s	remaining: 20.2s
413:	learn: 0.1990136	total: 1m 35s	remaining: 19.9s
414:	learn: 0.1989953	total: 1m 36s	remaining: 19.7s
415:	learn: 0.1989095	total: 1m 36s	remaining: 19.5s
416:	learn: 0.1988588	total: 1m 36s	remaining: 19.2s

417:	learn: 0.1988326	total: 1m 36s	remaining: 19s
418:	learn: 0.1987778	total: 1m 36s	remaining: 18.7s
419:	learn: 0.1987112	total: 1m 37s	remaining: 18.5s
420:	learn: 0.1986439	total: 1m 37s	remaining: 18.3s
421:	learn: 0.1984973	total: 1m 37s	remaining: 18s
422:	learn: 0.1984349	total: 1m 37s	remaining: 17.8s
423:	learn: 0.1984039	total: 1m 37s	remaining: 17.5s
424:	learn: 0.1982717	total: 1m 38s	remaining: 17.3s
425:	learn: 0.1982190	total: 1m 38s	remaining: 17.1s
426:	learn: 0.1980850	total: 1m 38s	remaining: 16.8s
427:	learn: 0.1980589	total: 1m 38s	remaining: 16.6s
428:	learn: 0.1980071	total: 1m 38s	remaining: 16.4s
429:	learn: 0.1978602	total: 1m 39s	remaining: 16.1s
430:	learn: 0.1978052	total: 1m 39s	remaining: 15.9s
431:	learn: 0.1977854	total: 1m 39s	remaining: 15.7s
432:	learn: 0.1972959	total: 1m 39s	remaining: 15.5s
433:	learn: 0.1972257	total: 1m 40s	remaining: 15.2s
434:	learn: 0.1971942	total: 1m 40s	remaining: 15s
435:	learn: 0.1971635	total: 1m 40s	remaining: 14.8s
436:	learn: 0.1971374	total: 1m 40s	remaining: 14.5s
437:	learn: 0.1970796	total: 1m 41s	remaining: 14.3s
438:	learn: 0.1970095	total: 1m 41s	remaining: 14.1s
439:	learn: 0.1969875	total: 1m 41s	remaining: 13.9s
440:	learn: 0.1969038	total: 1m 41s	remaining: 13.6s
441:	learn: 0.1968524	total: 1m 42s	remaining: 13.4s
442:	learn: 0.1967709	total: 1m 42s	remaining: 13.2s
443:	learn: 0.1967639	total: 1m 42s	remaining: 12.9s
444:	learn: 0.1966999	total: 1m 42s	remaining: 12.7s
445:	learn: 0.1966432	total: 1m 43s	remaining: 12.5s
446:	learn: 0.1965820	total: 1m 43s	remaining: 12.2s
447:	learn: 0.1965193	total: 1m 43s	remaining: 12s
448:	learn: 0.1964766	total: 1m 43s	remaining: 11.8s
449:	learn: 0.1964258	total: 1m 43s	remaining: 11.5s
450:	learn: 0.1964065	total: 1m 44s	remaining: 11.3s
451:	learn: 0.1963891	total: 1m 44s	remaining: 11.1s
452:	learn: 0.1963459	total: 1m 44s	remaining: 10.8s
453:	learn: 0.1962835	total: 1m 44s	remaining: 10.6s
454:	learn: 0.1962619	total: 1m 45s	remaining: 10.4s
455:	learn: 0.1962201	total: 1m 45s	remaining: 10.2s
456:	learn: 0.1957847	total: 1m 45s	remaining: 9.93s
457:	learn: 0.1956903	total: 1m 45s	remaining: 9.7s
458:	learn: 0.1956374	total: 1m 45s	remaining: 9.47s
459:	learn: 0.1956220	total: 1m 46s	remaining: 9.24s
460:	learn: 0.1955541	total: 1m 46s	remaining: 9.01s
461:	learn: 0.1954131	total: 1m 46s	remaining: 8.78s
462:	learn: 0.1953723	total: 1m 46s	remaining: 8.55s
463:	learn: 0.1953254	total: 1m 47s	remaining: 8.31s
464:	learn: 0.1952857	total: 1m 47s	remaining: 8.08s

465:	learn: 0.1952407	total: 1m 47s	remaining: 7.85s
466:	learn: 0.1952142	total: 1m 47s	remaining: 7.62s
467:	learn: 0.1951710	total: 1m 48s	remaining: 7.38s
468:	learn: 0.1951110	total: 1m 48s	remaining: 7.15s
469:	learn: 0.1950837	total: 1m 48s	remaining: 6.92s
470:	learn: 0.1950476	total: 1m 48s	remaining: 6.69s
471:	learn: 0.1949668	total: 1m 48s	remaining: 6.46s
472:	learn: 0.1948884	total: 1m 49s	remaining: 6.23s
473:	learn: 0.1948451	total: 1m 49s	remaining: 6s
474:	learn: 0.1947431	total: 1m 49s	remaining: 5.77s
475:	learn: 0.1946985	total: 1m 49s	remaining: 5.54s
476:	learn: 0.1946443	total: 1m 50s	remaining: 5.31s
477:	learn: 0.1945768	total: 1m 50s	remaining: 5.08s
478:	learn: 0.1944885	total: 1m 50s	remaining: 4.85s
479:	learn: 0.1944518	total: 1m 50s	remaining: 4.62s
480:	learn: 0.1944109	total: 1m 51s	remaining: 4.39s
481:	learn: 0.1943398	total: 1m 51s	remaining: 4.16s
482:	learn: 0.1942803	total: 1m 51s	remaining: 3.93s
483:	learn: 0.1942692	total: 1m 51s	remaining: 3.7s
484:	learn: 0.1942367	total: 1m 52s	remaining: 3.47s
485:	learn: 0.1941647	total: 1m 52s	remaining: 3.23s
486:	learn: 0.1940277	total: 1m 52s	remaining: 3s
487:	learn: 0.1940055	total: 1m 52s	remaining: 2.77s
488:	learn: 0.1939826	total: 1m 53s	remaining: 2.54s
489:	learn: 0.1939193	total: 1m 53s	remaining: 2.31s
490:	learn: 0.1938669	total: 1m 53s	remaining: 2.08s
491:	learn: 0.1938380	total: 1m 53s	remaining: 1.85s
492:	learn: 0.1938007	total: 1m 53s	remaining: 1.62s
493:	learn: 0.1936959	total: 1m 54s	remaining: 1.39s
494:	learn: 0.1936770	total: 1m 54s	remaining: 1.16s
495:	learn: 0.1936040	total: 1m 54s	remaining: 925ms
496:	learn: 0.1935282	total: 1m 55s	remaining: 694ms
497:	learn: 0.1935000	total: 1m 55s	remaining: 463ms
498:	learn: 0.1934345	total: 1m 55s	remaining: 232ms
499:	learn: 0.1933655	total: 1m 55s	remaining: 0us

Accuracy en cada fold: [0.83795346 0.67060233 0.63857277 0.64747155 0.68280996]

Accuracy promedio: 0.6954820132491878

Learning rate set to 0.174902

0:	learn: 0.9741259	total: 315ms	remaining: 2m 37s
1:	learn: 0.8975124	total: 627ms	remaining: 2m 36s
2:	learn: 0.8357398	total: 898ms	remaining: 2m 28s
3:	learn: 0.7915634	total: 1.14s	remaining: 2m 20s
4:	learn: 0.7407766	total: 1.41s	remaining: 2m 19s
5:	learn: 0.6475013	total: 1.65s	remaining: 2m 15s
6:	learn: 0.5780797	total: 1.9s	remaining: 2m 13s
7:	learn: 0.5208903	total: 2.14s	remaining: 2m 11s
8:	learn: 0.5077518	total: 2.35s	remaining: 2m 8s
9:	learn: 0.4633853	total: 2.57s	remaining: 2m 5s

10:	learn: 0.4329555	total: 2.8s	remaining: 2m 4s
11:	learn: 0.4068081	total: 2.99s	remaining: 2m 1s
12:	learn: 0.3859958	total: 3.18s	remaining: 1m 59s
13:	learn: 0.3696696	total: 3.35s	remaining: 1m 56s
14:	learn: 0.3581578	total: 3.54s	remaining: 1m 54s
15:	learn: 0.3433575	total: 3.73s	remaining: 1m 52s
16:	learn: 0.3354873	total: 3.95s	remaining: 1m 52s
17:	learn: 0.3284255	total: 4.25s	remaining: 1m 53s
18:	learn: 0.3253633	total: 4.54s	remaining: 1m 54s
19:	learn: 0.3150039	total: 4.83s	remaining: 1m 55s
20:	learn: 0.3094029	total: 5.08s	remaining: 1m 55s
21:	learn: 0.2999760	total: 5.36s	remaining: 1m 56s
22:	learn: 0.2986327	total: 5.63s	remaining: 1m 56s
23:	learn: 0.2972673	total: 5.88s	remaining: 1m 56s
24:	learn: 0.2958170	total: 6.16s	remaining: 1m 57s
25:	learn: 0.2886882	total: 6.43s	remaining: 1m 57s
26:	learn: 0.2862394	total: 6.69s	remaining: 1m 57s
27:	learn: 0.2807344	total: 6.91s	remaining: 1m 56s
28:	learn: 0.2761587	total: 7.17s	remaining: 1m 56s
29:	learn: 0.2751951	total: 7.43s	remaining: 1m 56s
30:	learn: 0.2745240	total: 7.69s	remaining: 1m 56s
31:	learn: 0.2706097	total: 7.99s	remaining: 1m 56s
32:	learn: 0.2675512	total: 8.24s	remaining: 1m 56s
33:	learn: 0.2647427	total: 8.55s	remaining: 1m 57s
34:	learn: 0.2641658	total: 8.83s	remaining: 1m 57s
35:	learn: 0.2636691	total: 9.09s	remaining: 1m 57s
36:	learn: 0.2598143	total: 9.42s	remaining: 1m 57s
37:	learn: 0.2594147	total: 9.72s	remaining: 1m 58s
38:	learn: 0.2568369	total: 9.97s	remaining: 1m 57s
39:	learn: 0.2565865	total: 10.3s	remaining: 1m 58s
40:	learn: 0.2563018	total: 10.6s	remaining: 1m 58s
41:	learn: 0.2559461	total: 10.9s	remaining: 1m 58s
42:	learn: 0.2558945	total: 11.1s	remaining: 1m 58s
43:	learn: 0.2557325	total: 11.4s	remaining: 1m 58s
44:	learn: 0.2552829	total: 11.7s	remaining: 1m 58s
45:	learn: 0.2552356	total: 11.8s	remaining: 1m 56s
46:	learn: 0.2546944	total: 12.1s	remaining: 1m 56s
47:	learn: 0.2543202	total: 12.4s	remaining: 1m 56s
48:	learn: 0.2539476	total: 12.7s	remaining: 1m 56s
49:	learn: 0.2521907	total: 13s	remaining: 1m 56s
50:	learn: 0.2519146	total: 13.3s	remaining: 1m 57s
51:	learn: 0.2517873	total: 13.6s	remaining: 1m 57s
52:	learn: 0.2513858	total: 13.9s	remaining: 1m 57s
53:	learn: 0.2510359	total: 14.2s	remaining: 1m 57s
54:	learn: 0.2508257	total: 14.5s	remaining: 1m 57s
55:	learn: 0.2506781	total: 14.8s	remaining: 1m 57s
56:	learn: 0.2504708	total: 15.1s	remaining: 1m 57s
57:	learn: 0.2502010	total: 15.3s	remaining: 1m 56s

58:	learn: 0.2499422	total: 15.6s	remaining: 1m 56s
59:	learn: 0.2497399	total: 16s	remaining: 1m 57s
60:	learn: 0.2496445	total: 16.3s	remaining: 1m 56s
61:	learn: 0.2494029	total: 16.6s	remaining: 1m 56s
62:	learn: 0.2492997	total: 16.9s	remaining: 1m 56s
63:	learn: 0.2491155	total: 17.1s	remaining: 1m 56s
64:	learn: 0.2488741	total: 17.4s	remaining: 1m 56s
65:	learn: 0.2485931	total: 17.7s	remaining: 1m 56s
66:	learn: 0.2484228	total: 18s	remaining: 1m 56s
67:	learn: 0.2482231	total: 18.2s	remaining: 1m 55s
68:	learn: 0.2479920	total: 18.5s	remaining: 1m 55s
69:	learn: 0.2478147	total: 18.8s	remaining: 1m 55s
70:	learn: 0.2475861	total: 19.1s	remaining: 1m 55s
71:	learn: 0.2474646	total: 19.3s	remaining: 1m 54s
72:	learn: 0.2473636	total: 19.6s	remaining: 1m 54s
73:	learn: 0.2471443	total: 19.8s	remaining: 1m 54s
74:	learn: 0.2468174	total: 20.1s	remaining: 1m 53s
75:	learn: 0.2466766	total: 20.4s	remaining: 1m 53s
76:	learn: 0.2464546	total: 20.6s	remaining: 1m 53s
77:	learn: 0.2450854	total: 20.9s	remaining: 1m 52s
78:	learn: 0.2448964	total: 21.1s	remaining: 1m 52s
79:	learn: 0.2446381	total: 21.4s	remaining: 1m 52s
80:	learn: 0.2442519	total: 21.7s	remaining: 1m 52s
81:	learn: 0.2441394	total: 21.9s	remaining: 1m 51s
82:	learn: 0.2432552	total: 22.2s	remaining: 1m 51s
83:	learn: 0.2431479	total: 22.4s	remaining: 1m 51s
84:	learn: 0.2430806	total: 22.7s	remaining: 1m 51s
85:	learn: 0.2429218	total: 23.1s	remaining: 1m 51s
86:	learn: 0.2427474	total: 23.4s	remaining: 1m 50s
87:	learn: 0.2421374	total: 23.6s	remaining: 1m 50s
88:	learn: 0.2420386	total: 23.8s	remaining: 1m 50s
89:	learn: 0.2419432	total: 24.1s	remaining: 1m 49s
90:	learn: 0.2418452	total: 24.5s	remaining: 1m 49s
91:	learn: 0.2417377	total: 24.8s	remaining: 1m 50s
92:	learn: 0.2416858	total: 25.1s	remaining: 1m 49s
93:	learn: 0.2415749	total: 25.4s	remaining: 1m 49s
94:	learn: 0.2415284	total: 25.7s	remaining: 1m 49s
95:	learn: 0.2413702	total: 26s	remaining: 1m 49s
96:	learn: 0.2413432	total: 26.3s	remaining: 1m 49s
97:	learn: 0.2399699	total: 26.6s	remaining: 1m 48s
98:	learn: 0.2398325	total: 26.8s	remaining: 1m 48s
99:	learn: 0.2397554	total: 27.1s	remaining: 1m 48s
100:	learn: 0.2396959	total: 27.4s	remaining: 1m 48s
101:	learn: 0.2395706	total: 27.6s	remaining: 1m 47s
102:	learn: 0.2394984	total: 27.9s	remaining: 1m 47s
103:	learn: 0.2394305	total: 28.2s	remaining: 1m 47s
104:	learn: 0.2393157	total: 28.5s	remaining: 1m 47s
105:	learn: 0.2391194	total: 28.8s	remaining: 1m 46s

106:	learn: 0.2389863	total: 29.1s	remaining: 1m 46s
107:	learn: 0.2388742	total: 29.4s	remaining: 1m 46s
108:	learn: 0.2388563	total: 29.6s	remaining: 1m 46s
109:	learn: 0.2387592	total: 29.9s	remaining: 1m 45s
110:	learn: 0.2386334	total: 30.2s	remaining: 1m 45s
111:	learn: 0.2385672	total: 30.4s	remaining: 1m 45s
112:	learn: 0.2384955	total: 30.7s	remaining: 1m 45s
113:	learn: 0.2384366	total: 31s	remaining: 1m 45s
114:	learn: 0.2383281	total: 31.3s	remaining: 1m 44s
115:	learn: 0.2382441	total: 31.7s	remaining: 1m 44s
116:	learn: 0.2380843	total: 31.9s	remaining: 1m 44s
117:	learn: 0.2380269	total: 32.2s	remaining: 1m 44s
118:	learn: 0.2378848	total: 32.5s	remaining: 1m 43s
119:	learn: 0.2378007	total: 32.8s	remaining: 1m 43s
120:	learn: 0.2377533	total: 33s	remaining: 1m 43s
121:	learn: 0.2376980	total: 33.4s	remaining: 1m 43s
122:	learn: 0.2376208	total: 33.7s	remaining: 1m 43s
123:	learn: 0.2375682	total: 33.9s	remaining: 1m 42s
124:	learn: 0.2375137	total: 34.2s	remaining: 1m 42s
125:	learn: 0.2374786	total: 34.5s	remaining: 1m 42s
126:	learn: 0.2372736	total: 34.8s	remaining: 1m 42s
127:	learn: 0.2372433	total: 35.1s	remaining: 1m 41s
128:	learn: 0.2371872	total: 35.3s	remaining: 1m 41s
129:	learn: 0.2370841	total: 35.6s	remaining: 1m 41s
130:	learn: 0.2367446	total: 35.9s	remaining: 1m 41s
131:	learn: 0.2367316	total: 36.1s	remaining: 1m 40s
132:	learn: 0.2366893	total: 36.4s	remaining: 1m 40s
133:	learn: 0.2365789	total: 36.7s	remaining: 1m 40s
134:	learn: 0.2364812	total: 37s	remaining: 1m 39s
135:	learn: 0.2363756	total: 37.2s	remaining: 1m 39s
136:	learn: 0.2359005	total: 37.5s	remaining: 1m 39s
137:	learn: 0.2357673	total: 37.8s	remaining: 1m 39s
138:	learn: 0.2356417	total: 38.1s	remaining: 1m 38s
139:	learn: 0.2354908	total: 38.3s	remaining: 1m 38s
140:	learn: 0.2353887	total: 38.6s	remaining: 1m 38s
141:	learn: 0.2353274	total: 38.9s	remaining: 1m 38s
142:	learn: 0.2352938	total: 39.1s	remaining: 1m 37s
143:	learn: 0.2351483	total: 39.4s	remaining: 1m 37s
144:	learn: 0.2348960	total: 39.7s	remaining: 1m 37s
145:	learn: 0.2347970	total: 40s	remaining: 1m 36s
146:	learn: 0.2347457	total: 40.2s	remaining: 1m 36s
147:	learn: 0.2346944	total: 40.5s	remaining: 1m 36s
148:	learn: 0.2346792	total: 40.8s	remaining: 1m 36s
149:	learn: 0.2346196	total: 41.1s	remaining: 1m 35s
150:	learn: 0.2345125	total: 41.4s	remaining: 1m 35s
151:	learn: 0.2344329	total: 41.7s	remaining: 1m 35s
152:	learn: 0.2343352	total: 42s	remaining: 1m 35s
153:	learn: 0.2342170	total: 42.3s	remaining: 1m 34s

154:	learn: 0.2339289	total: 42.5s	remaining: 1m 34s
155:	learn: 0.2338512	total: 42.8s	remaining: 1m 34s
156:	learn: 0.2338187	total: 43.1s	remaining: 1m 34s
157:	learn: 0.2337047	total: 43.4s	remaining: 1m 34s
158:	learn: 0.2335458	total: 43.7s	remaining: 1m 33s
159:	learn: 0.2334025	total: 44s	remaining: 1m 33s
160:	learn: 0.2333436	total: 44.3s	remaining: 1m 33s
161:	learn: 0.2332826	total: 44.6s	remaining: 1m 33s
162:	learn: 0.2332279	total: 44.9s	remaining: 1m 32s
163:	learn: 0.2330247	total: 45.2s	remaining: 1m 32s
164:	learn: 0.2329450	total: 45.5s	remaining: 1m 32s
165:	learn: 0.2327632	total: 45.8s	remaining: 1m 32s
166:	learn: 0.2326445	total: 46s	remaining: 1m 31s
167:	learn: 0.2325536	total: 46.4s	remaining: 1m 31s
168:	learn: 0.2324599	total: 46.6s	remaining: 1m 31s
169:	learn: 0.2323306	total: 46.9s	remaining: 1m 31s
170:	learn: 0.2322290	total: 47.2s	remaining: 1m 30s
171:	learn: 0.2321492	total: 47.5s	remaining: 1m 30s
172:	learn: 0.2318591	total: 47.8s	remaining: 1m 30s
173:	learn: 0.2317098	total: 48.1s	remaining: 1m 30s
174:	learn: 0.2316351	total: 48.4s	remaining: 1m 29s
175:	learn: 0.2314634	total: 48.7s	remaining: 1m 29s
176:	learn: 0.2313835	total: 49s	remaining: 1m 29s
177:	learn: 0.2313171	total: 49.3s	remaining: 1m 29s
178:	learn: 0.2312776	total: 49.5s	remaining: 1m 28s
179:	learn: 0.2312279	total: 49.8s	remaining: 1m 28s
180:	learn: 0.2311654	total: 50.1s	remaining: 1m 28s
181:	learn: 0.2311466	total: 50.4s	remaining: 1m 28s
182:	learn: 0.2310998	total: 50.7s	remaining: 1m 27s
183:	learn: 0.2310671	total: 50.9s	remaining: 1m 27s
184:	learn: 0.2309419	total: 51.2s	remaining: 1m 27s
185:	learn: 0.2309214	total: 51.5s	remaining: 1m 26s
186:	learn: 0.2308556	total: 51.8s	remaining: 1m 26s
187:	learn: 0.2308032	total: 52s	remaining: 1m 26s
188:	learn: 0.2307509	total: 52.3s	remaining: 1m 26s
189:	learn: 0.2305724	total: 52.6s	remaining: 1m 25s
190:	learn: 0.2305107	total: 52.8s	remaining: 1m 25s
191:	learn: 0.2304224	total: 53.1s	remaining: 1m 25s
192:	learn: 0.2303650	total: 53.4s	remaining: 1m 24s
193:	learn: 0.2302898	total: 53.7s	remaining: 1m 24s
194:	learn: 0.2301108	total: 53.9s	remaining: 1m 24s
195:	learn: 0.2298922	total: 54.2s	remaining: 1m 24s
196:	learn: 0.2298616	total: 54.4s	remaining: 1m 23s
197:	learn: 0.2298153	total: 54.6s	remaining: 1m 23s
198:	learn: 0.2297256	total: 54.9s	remaining: 1m 23s
199:	learn: 0.2296993	total: 55.1s	remaining: 1m 22s
200:	learn: 0.2296412	total: 55.4s	remaining: 1m 22s
201:	learn: 0.2294458	total: 55.6s	remaining: 1m 22s

202:	learn: 0.2293420	total: 55.9s	remaining: 1m 21s
203:	learn: 0.2292630	total: 56.2s	remaining: 1m 21s
204:	learn: 0.2291939	total: 56.4s	remaining: 1m 21s
205:	learn: 0.2291525	total: 56.8s	remaining: 1m 21s
206:	learn: 0.2291156	total: 57s	remaining: 1m 20s
207:	learn: 0.2290433	total: 57.3s	remaining: 1m 20s
208:	learn: 0.2290027	total: 57.6s	remaining: 1m 20s
209:	learn: 0.2289839	total: 57.9s	remaining: 1m 19s
210:	learn: 0.2288867	total: 58.2s	remaining: 1m 19s
211:	learn: 0.2288305	total: 58.4s	remaining: 1m 19s
212:	learn: 0.2286713	total: 58.7s	remaining: 1m 19s
213:	learn: 0.2285659	total: 59s	remaining: 1m 18s
214:	learn: 0.2285270	total: 59.3s	remaining: 1m 18s
215:	learn: 0.2284819	total: 59.6s	remaining: 1m 18s
216:	learn: 0.2284221	total: 59.9s	remaining: 1m 18s
217:	learn: 0.2283492	total: 1m	remaining: 1m 17s
218:	learn: 0.2282491	total: 1m	remaining: 1m 17s
219:	learn: 0.2280945	total: 1m	remaining: 1m 17s
220:	learn: 0.2280448	total: 1m 1s	remaining: 1m 17s
221:	learn: 0.2279829	total: 1m 1s	remaining: 1m 16s
222:	learn: 0.2279247	total: 1m 1s	remaining: 1m 16s
223:	learn: 0.2278723	total: 1m 1s	remaining: 1m 16s
224:	learn: 0.2278232	total: 1m 2s	remaining: 1m 16s
225:	learn: 0.2277083	total: 1m 2s	remaining: 1m 15s
226:	learn: 0.2276484	total: 1m 2s	remaining: 1m 15s
227:	learn: 0.2276087	total: 1m 3s	remaining: 1m 15s
228:	learn: 0.2275724	total: 1m 3s	remaining: 1m 15s
229:	learn: 0.2275202	total: 1m 3s	remaining: 1m 14s
230:	learn: 0.2274389	total: 1m 3s	remaining: 1m 14s
231:	learn: 0.2273554	total: 1m 4s	remaining: 1m 14s
232:	learn: 0.2272095	total: 1m 4s	remaining: 1m 14s
233:	learn: 0.2271647	total: 1m 4s	remaining: 1m 13s
234:	learn: 0.2270761	total: 1m 5s	remaining: 1m 13s
235:	learn: 0.2270063	total: 1m 5s	remaining: 1m 13s
236:	learn: 0.2268886	total: 1m 5s	remaining: 1m 12s
237:	learn: 0.2268445	total: 1m 6s	remaining: 1m 12s
238:	learn: 0.2267815	total: 1m 6s	remaining: 1m 12s
239:	learn: 0.2267063	total: 1m 6s	remaining: 1m 12s
240:	learn: 0.2266488	total: 1m 6s	remaining: 1m 11s
241:	learn: 0.2265627	total: 1m 7s	remaining: 1m 11s
242:	learn: 0.2264830	total: 1m 7s	remaining: 1m 11s
243:	learn: 0.2263792	total: 1m 7s	remaining: 1m 11s
244:	learn: 0.2263326	total: 1m 7s	remaining: 1m 10s
245:	learn: 0.2262446	total: 1m 8s	remaining: 1m 10s
246:	learn: 0.2261722	total: 1m 8s	remaining: 1m 10s
247:	learn: 0.2261032	total: 1m 8s	remaining: 1m 9s
248:	learn: 0.2260631	total: 1m 9s	remaining: 1m 9s
249:	learn: 0.2260349	total: 1m 9s	remaining: 1m 9s

250:	learn: 0.2259595	total: 1m 9s	remaining: 1m 8s
251:	learn: 0.2259222	total: 1m 9s	remaining: 1m 8s
252:	learn: 0.2258134	total: 1m 10s	remaining: 1m 8s
253:	learn: 0.2257359	total: 1m 10s	remaining: 1m 8s
254:	learn: 0.2256823	total: 1m 10s	remaining: 1m 7s
255:	learn: 0.2256016	total: 1m 10s	remaining: 1m 7s
256:	learn: 0.2255748	total: 1m 11s	remaining: 1m 7s
257:	learn: 0.2255377	total: 1m 11s	remaining: 1m 6s
258:	learn: 0.2255042	total: 1m 11s	remaining: 1m 6s
259:	learn: 0.2254256	total: 1m 11s	remaining: 1m 6s
260:	learn: 0.2252684	total: 1m 12s	remaining: 1m 6s
261:	learn: 0.2252368	total: 1m 12s	remaining: 1m 5s
262:	learn: 0.2251676	total: 1m 12s	remaining: 1m 5s
263:	learn: 0.2250974	total: 1m 12s	remaining: 1m 5s
264:	learn: 0.2250074	total: 1m 13s	remaining: 1m 4s
265:	learn: 0.2249697	total: 1m 13s	remaining: 1m 4s
266:	learn: 0.2248618	total: 1m 13s	remaining: 1m 4s
267:	learn: 0.2248233	total: 1m 14s	remaining: 1m 4s
268:	learn: 0.2247460	total: 1m 14s	remaining: 1m 3s
269:	learn: 0.2246862	total: 1m 14s	remaining: 1m 3s
270:	learn: 0.2245665	total: 1m 14s	remaining: 1m 3s
271:	learn: 0.2244555	total: 1m 15s	remaining: 1m 3s
272:	learn: 0.2244261	total: 1m 15s	remaining: 1m 2s
273:	learn: 0.2243882	total: 1m 15s	remaining: 1m 2s
274:	learn: 0.2243516	total: 1m 16s	remaining: 1m 2s
275:	learn: 0.2242547	total: 1m 16s	remaining: 1m 1s
276:	learn: 0.2242050	total: 1m 16s	remaining: 1m 1s
277:	learn: 0.2241716	total: 1m 16s	remaining: 1m 1s
278:	learn: 0.2241505	total: 1m 17s	remaining: 1m 1s
279:	learn: 0.2240931	total: 1m 17s	remaining: 1m
280:	learn: 0.2240798	total: 1m 17s	remaining: 1m
281:	learn: 0.2240076	total: 1m 18s	remaining: 1m
282:	learn: 0.2239579	total: 1m 18s	remaining: 1m
283:	learn: 0.2239068	total: 1m 18s	remaining: 59.9s
284:	learn: 0.2238640	total: 1m 18s	remaining: 59.6s
285:	learn: 0.2238458	total: 1m 19s	remaining: 59.3s
286:	learn: 0.2237650	total: 1m 19s	remaining: 59s
287:	learn: 0.2236881	total: 1m 19s	remaining: 58.8s
288:	learn: 0.2236349	total: 1m 20s	remaining: 58.5s
289:	learn: 0.2235725	total: 1m 20s	remaining: 58.2s
290:	learn: 0.2235591	total: 1m 20s	remaining: 57.9s
291:	learn: 0.2234327	total: 1m 20s	remaining: 57.7s
292:	learn: 0.2234003	total: 1m 21s	remaining: 57.4s
293:	learn: 0.2233419	total: 1m 21s	remaining: 57.1s
294:	learn: 0.2232550	total: 1m 21s	remaining: 56.8s
295:	learn: 0.2231381	total: 1m 22s	remaining: 56.5s
296:	learn: 0.2230709	total: 1m 22s	remaining: 56.3s
297:	learn: 0.2230105	total: 1m 22s	remaining: 56s

298:	learn: 0.2229926	total: 1m 22s	remaining: 55.7s
299:	learn: 0.2229791	total: 1m 23s	remaining: 55.4s
300:	learn: 0.2229349	total: 1m 23s	remaining: 55.2s
301:	learn: 0.2228654	total: 1m 23s	remaining: 54.9s
302:	learn: 0.2227887	total: 1m 23s	remaining: 54.6s
303:	learn: 0.2227380	total: 1m 24s	remaining: 54.3s
304:	learn: 0.2226323	total: 1m 24s	remaining: 54s
305:	learn: 0.2225763	total: 1m 24s	remaining: 53.7s
306:	learn: 0.2225092	total: 1m 24s	remaining: 53.4s
307:	learn: 0.2224520	total: 1m 25s	remaining: 53.1s
308:	learn: 0.2223610	total: 1m 25s	remaining: 52.8s
309:	learn: 0.2223102	total: 1m 25s	remaining: 52.5s
310:	learn: 0.2222576	total: 1m 25s	remaining: 52.2s
311:	learn: 0.2222058	total: 1m 26s	remaining: 51.9s
312:	learn: 0.2221726	total: 1m 26s	remaining: 51.6s
313:	learn: 0.2221249	total: 1m 26s	remaining: 51.3s
314:	learn: 0.2220597	total: 1m 26s	remaining: 51s
315:	learn: 0.2220371	total: 1m 27s	remaining: 50.7s
316:	learn: 0.2219853	total: 1m 27s	remaining: 50.4s
317:	learn: 0.2219393	total: 1m 27s	remaining: 50.1s
318:	learn: 0.2217625	total: 1m 27s	remaining: 49.9s
319:	learn: 0.2216709	total: 1m 28s	remaining: 49.6s
320:	learn: 0.2216061	total: 1m 28s	remaining: 49.3s
321:	learn: 0.2215124	total: 1m 28s	remaining: 49s
322:	learn: 0.2214739	total: 1m 29s	remaining: 48.8s
323:	learn: 0.2214268	total: 1m 29s	remaining: 48.5s
324:	learn: 0.2213594	total: 1m 29s	remaining: 48.2s
325:	learn: 0.2213353	total: 1m 29s	remaining: 48s
326:	learn: 0.2211970	total: 1m 30s	remaining: 47.7s
327:	learn: 0.2211422	total: 1m 30s	remaining: 47.4s
328:	learn: 0.2210916	total: 1m 30s	remaining: 47.2s
329:	learn: 0.2210391	total: 1m 30s	remaining: 46.9s
330:	learn: 0.2210076	total: 1m 31s	remaining: 46.6s
331:	learn: 0.2209935	total: 1m 31s	remaining: 46.3s
332:	learn: 0.2209653	total: 1m 31s	remaining: 46.1s
333:	learn: 0.2208980	total: 1m 32s	remaining: 45.8s
334:	learn: 0.2208724	total: 1m 32s	remaining: 45.5s
335:	learn: 0.2207968	total: 1m 32s	remaining: 45.3s
336:	learn: 0.2207327	total: 1m 32s	remaining: 45s
337:	learn: 0.2206927	total: 1m 33s	remaining: 44.7s
338:	learn: 0.2206503	total: 1m 33s	remaining: 44.4s
339:	learn: 0.2205673	total: 1m 33s	remaining: 44.1s
340:	learn: 0.2205302	total: 1m 34s	remaining: 43.9s
341:	learn: 0.2204237	total: 1m 34s	remaining: 43.6s
342:	learn: 0.2203792	total: 1m 34s	remaining: 43.4s
343:	learn: 0.2203490	total: 1m 35s	remaining: 43.1s
344:	learn: 0.2202763	total: 1m 35s	remaining: 42.8s
345:	learn: 0.2201767	total: 1m 35s	remaining: 42.6s

346:	learn: 0.2201011	total: 1m 35s	remaining: 42.3s
347:	learn: 0.2199977	total: 1m 36s	remaining: 42.1s
348:	learn: 0.2199471	total: 1m 36s	remaining: 41.8s
349:	learn: 0.2198928	total: 1m 36s	remaining: 41.5s
350:	learn: 0.2198089	total: 1m 37s	remaining: 41.3s
351:	learn: 0.2197558	total: 1m 37s	remaining: 41s
352:	learn: 0.2196939	total: 1m 37s	remaining: 40.7s
353:	learn: 0.2196495	total: 1m 38s	remaining: 40.4s
354:	learn: 0.2195611	total: 1m 38s	remaining: 40.2s
355:	learn: 0.2195197	total: 1m 38s	remaining: 39.9s
356:	learn: 0.2194576	total: 1m 38s	remaining: 39.6s
357:	learn: 0.2194150	total: 1m 39s	remaining: 39.4s
358:	learn: 0.2193863	total: 1m 39s	remaining: 39.1s
359:	learn: 0.2193606	total: 1m 39s	remaining: 38.8s
360:	learn: 0.2192257	total: 1m 40s	remaining: 38.5s
361:	learn: 0.2191534	total: 1m 40s	remaining: 38.2s
362:	learn: 0.2190906	total: 1m 40s	remaining: 37.9s
363:	learn: 0.2189959	total: 1m 40s	remaining: 37.7s
364:	learn: 0.2189588	total: 1m 41s	remaining: 37.4s
365:	learn: 0.2188945	total: 1m 41s	remaining: 37.1s
366:	learn: 0.2188844	total: 1m 41s	remaining: 36.8s
367:	learn: 0.2188456	total: 1m 41s	remaining: 36.5s
368:	learn: 0.2187835	total: 1m 42s	remaining: 36.3s
369:	learn: 0.2187476	total: 1m 42s	remaining: 36s
370:	learn: 0.2187265	total: 1m 42s	remaining: 35.7s
371:	learn: 0.2186571	total: 1m 42s	remaining: 35.4s
372:	learn: 0.2186131	total: 1m 43s	remaining: 35.1s
373:	learn: 0.2185514	total: 1m 43s	remaining: 34.8s
374:	learn: 0.2185436	total: 1m 43s	remaining: 34.5s
375:	learn: 0.2185283	total: 1m 43s	remaining: 34.2s
376:	learn: 0.2184505	total: 1m 44s	remaining: 34s
377:	learn: 0.2184264	total: 1m 44s	remaining: 33.7s
378:	learn: 0.2183407	total: 1m 44s	remaining: 33.4s
379:	learn: 0.2182651	total: 1m 44s	remaining: 33.1s
380:	learn: 0.2181838	total: 1m 45s	remaining: 32.9s
381:	learn: 0.2181160	total: 1m 45s	remaining: 32.6s
382:	learn: 0.2180666	total: 1m 45s	remaining: 32.3s
383:	learn: 0.2180039	total: 1m 46s	remaining: 32s
384:	learn: 0.2179672	total: 1m 46s	remaining: 31.8s
385:	learn: 0.2179390	total: 1m 46s	remaining: 31.5s
386:	learn: 0.2179067	total: 1m 46s	remaining: 31.2s
387:	learn: 0.2178366	total: 1m 47s	remaining: 31s
388:	learn: 0.2177422	total: 1m 47s	remaining: 30.7s
389:	learn: 0.2176700	total: 1m 47s	remaining: 30.4s
390:	learn: 0.2175726	total: 1m 48s	remaining: 30.1s
391:	learn: 0.2175187	total: 1m 48s	remaining: 29.8s
392:	learn: 0.2174733	total: 1m 48s	remaining: 29.6s
393:	learn: 0.2174509	total: 1m 48s	remaining: 29.3s

394:	learn: 0.2173081	total: 1m 49s	remaining: 29s
395:	learn: 0.2172811	total: 1m 49s	remaining: 28.8s
396:	learn: 0.2172249	total: 1m 49s	remaining: 28.5s
397:	learn: 0.2171537	total: 1m 50s	remaining: 28.2s
398:	learn: 0.2170979	total: 1m 50s	remaining: 27.9s
399:	learn: 0.2170645	total: 1m 50s	remaining: 27.6s
400:	learn: 0.2170105	total: 1m 50s	remaining: 27.4s
401:	learn: 0.2169722	total: 1m 51s	remaining: 27.1s
402:	learn: 0.2169366	total: 1m 51s	remaining: 26.8s
403:	learn: 0.2168326	total: 1m 51s	remaining: 26.5s
404:	learn: 0.2167016	total: 1m 51s	remaining: 26.2s
405:	learn: 0.2166529	total: 1m 52s	remaining: 26s
406:	learn: 0.2165697	total: 1m 52s	remaining: 25.7s
407:	learn: 0.2164792	total: 1m 52s	remaining: 25.4s
408:	learn: 0.2164167	total: 1m 52s	remaining: 25.1s
409:	learn: 0.2163670	total: 1m 53s	remaining: 24.9s
410:	learn: 0.2163166	total: 1m 53s	remaining: 24.6s
411:	learn: 0.2162961	total: 1m 53s	remaining: 24.3s
412:	learn: 0.2161867	total: 1m 54s	remaining: 24s
413:	learn: 0.2161490	total: 1m 54s	remaining: 23.8s
414:	learn: 0.2161241	total: 1m 54s	remaining: 23.5s
415:	learn: 0.2160300	total: 1m 54s	remaining: 23.2s
416:	learn: 0.2159967	total: 1m 55s	remaining: 22.9s
417:	learn: 0.2159822	total: 1m 55s	remaining: 22.6s
418:	learn: 0.2159385	total: 1m 55s	remaining: 22.4s
419:	learn: 0.2158851	total: 1m 55s	remaining: 22.1s
420:	learn: 0.2158101	total: 1m 56s	remaining: 21.8s
421:	learn: 0.2157962	total: 1m 56s	remaining: 21.5s
422:	learn: 0.2157532	total: 1m 56s	remaining: 21.2s
423:	learn: 0.2157251	total: 1m 56s	remaining: 20.9s
424:	learn: 0.2156782	total: 1m 56s	remaining: 20.6s
425:	learn: 0.2156557	total: 1m 56s	remaining: 20.3s
426:	learn: 0.2155956	total: 1m 57s	remaining: 20s
427:	learn: 0.2155770	total: 1m 57s	remaining: 19.7s
428:	learn: 0.2155328	total: 1m 57s	remaining: 19.5s
429:	learn: 0.2154548	total: 1m 57s	remaining: 19.2s
430:	learn: 0.2154063	total: 1m 57s	remaining: 18.9s
431:	learn: 0.2153234	total: 1m 58s	remaining: 18.6s
432:	learn: 0.2152791	total: 1m 58s	remaining: 18.3s
433:	learn: 0.2152413	total: 1m 58s	remaining: 18.1s
434:	learn: 0.2151305	total: 1m 59s	remaining: 17.8s
435:	learn: 0.2150893	total: 1m 59s	remaining: 17.5s
436:	learn: 0.2150562	total: 1m 59s	remaining: 17.2s
437:	learn: 0.2149277	total: 1m 59s	remaining: 17s
438:	learn: 0.2149115	total: 2m	remaining: 16.7s
439:	learn: 0.2148769	total: 2m	remaining: 16.4s
440:	learn: 0.2148415	total: 2m	remaining: 16.2s
441:	learn: 0.2147868	total: 2m 1s	remaining: 15.9s

442:	learn: 0.2146450	total: 2m 1s	remaining: 15.6s
443:	learn: 0.2145772	total: 2m 1s	remaining: 15.3s
444:	learn: 0.2144877	total: 2m 1s	remaining: 15.1s
445:	learn: 0.2144250	total: 2m 2s	remaining: 14.8s
446:	learn: 0.2143588	total: 2m 2s	remaining: 14.5s
447:	learn: 0.2142810	total: 2m 2s	remaining: 14.3s
448:	learn: 0.2142408	total: 2m 3s	remaining: 14s
449:	learn: 0.2141973	total: 2m 3s	remaining: 13.7s
450:	learn: 0.2141598	total: 2m 3s	remaining: 13.4s
451:	learn: 0.2141094	total: 2m 3s	remaining: 13.2s
452:	learn: 0.2140869	total: 2m 4s	remaining: 12.9s
453:	learn: 0.2139979	total: 2m 4s	remaining: 12.6s
454:	learn: 0.2138975	total: 2m 4s	remaining: 12.3s
455:	learn: 0.2138709	total: 2m 5s	remaining: 12.1s
456:	learn: 0.2138340	total: 2m 5s	remaining: 11.8s
457:	learn: 0.2137593	total: 2m 5s	remaining: 11.5s
458:	learn: 0.2136907	total: 2m 5s	remaining: 11.3s
459:	learn: 0.2136451	total: 2m 6s	remaining: 11s
460:	learn: 0.2135870	total: 2m 6s	remaining: 10.7s
461:	learn: 0.2135300	total: 2m 6s	remaining: 10.4s
462:	learn: 0.2135026	total: 2m 7s	remaining: 10.2s
463:	learn: 0.2134254	total: 2m 7s	remaining: 9.88s
464:	learn: 0.2133631	total: 2m 7s	remaining: 9.61s
465:	learn: 0.2133288	total: 2m 7s	remaining: 9.34s
466:	learn: 0.2132852	total: 2m 8s	remaining: 9.06s
467:	learn: 0.2132127	total: 2m 8s	remaining: 8.78s
468:	learn: 0.2131531	total: 2m 8s	remaining: 8.51s
469:	learn: 0.2131193	total: 2m 9s	remaining: 8.23s
470:	learn: 0.2130375	total: 2m 9s	remaining: 7.96s
471:	learn: 0.2130188	total: 2m 9s	remaining: 7.68s
472:	learn: 0.2129868	total: 2m 9s	remaining: 7.41s
473:	learn: 0.2129417	total: 2m 10s	remaining: 7.14s
474:	learn: 0.2129329	total: 2m 10s	remaining: 6.86s
475:	learn: 0.2128419	total: 2m 10s	remaining: 6.59s
476:	learn: 0.2128128	total: 2m 10s	remaining: 6.31s
477:	learn: 0.2127101	total: 2m 11s	remaining: 6.04s
478:	learn: 0.2126206	total: 2m 11s	remaining: 5.77s
479:	learn: 0.2125412	total: 2m 11s	remaining: 5.49s
480:	learn: 0.2124489	total: 2m 12s	remaining: 5.21s
481:	learn: 0.2124103	total: 2m 12s	remaining: 4.94s
482:	learn: 0.2123546	total: 2m 12s	remaining: 4.67s
483:	learn: 0.2122767	total: 2m 12s	remaining: 4.39s
484:	learn: 0.2122670	total: 2m 13s	remaining: 4.12s
485:	learn: 0.2122574	total: 2m 13s	remaining: 3.84s
486:	learn: 0.2122450	total: 2m 13s	remaining: 3.56s
487:	learn: 0.2121389	total: 2m 13s	remaining: 3.29s
488:	learn: 0.2121059	total: 2m 14s	remaining: 3.02s
489:	learn: 0.2120672	total: 2m 14s	remaining: 2.74s

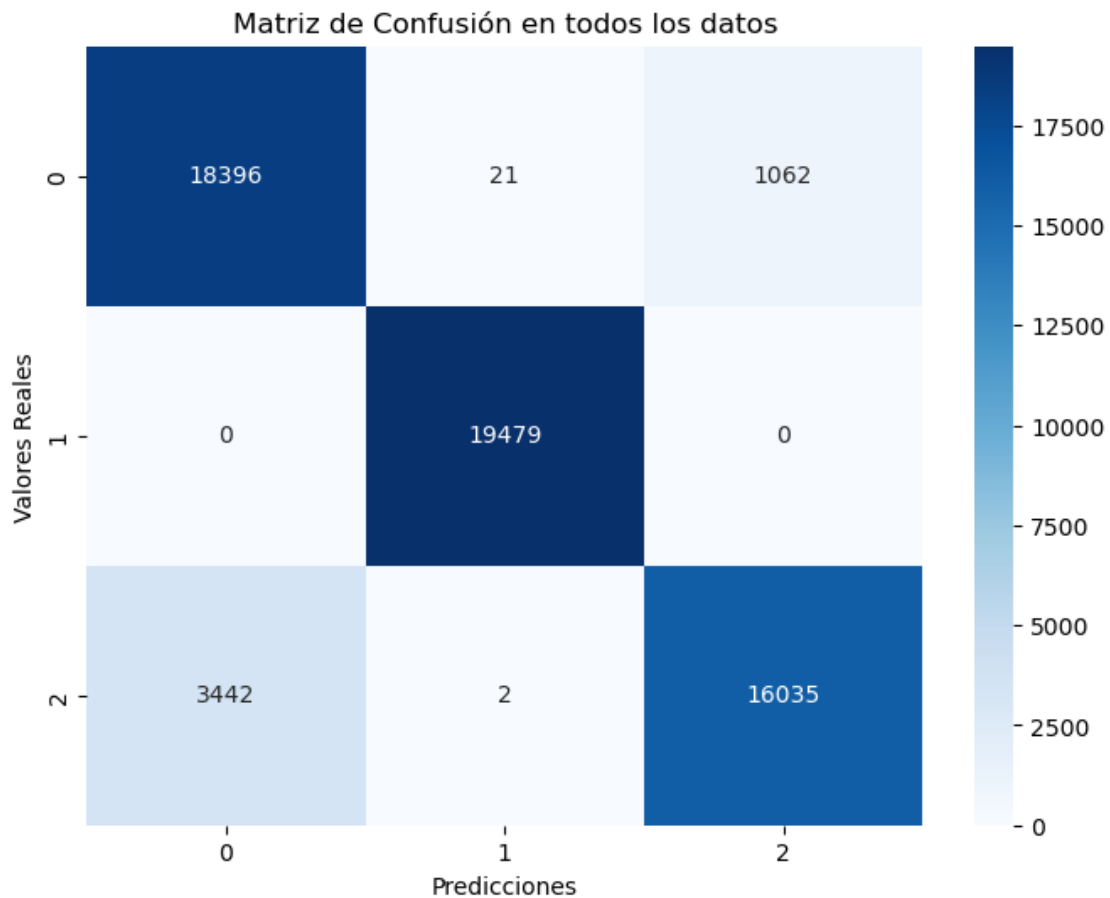
```

490:   learn: 0.2120043      total: 2m 14s   remaining: 2.47s
491:   learn: 0.2119010      total: 2m 14s   remaining: 2.19s
492:   learn: 0.2118231      total: 2m 15s   remaining: 1.92s
493:   learn: 0.2117792      total: 2m 15s   remaining: 1.64s
494:   learn: 0.2117320      total: 2m 15s   remaining: 1.37s
495:   learn: 0.2117065      total: 2m 15s   remaining: 1.1s
496:   learn: 0.2116843      total: 2m 16s   remaining: 823ms
497:   learn: 0.2116341      total: 2m 16s   remaining: 548ms
498:   learn: 0.2115835      total: 2m 16s   remaining: 274ms
499:   learn: 0.2115230      total: 2m 17s   remaining: 0us

```

Informe de Clasificación en todos los datos:

	precision	recall	f1-score	support
0	0.84	0.94	0.89	19479
1	1.00	1.00	1.00	19479
2	0.94	0.82	0.88	19479
accuracy			0.92	58437
macro avg	0.93	0.92	0.92	58437
weighted avg	0.93	0.92	0.92	58437



```
[26]: from sklearn.model_selection import cross_val_score

# Realiza cross-validation y muestra los resultados
scores = cross_val_score(catboost_model, X_resampled, y_resampled, cv=10,
    ↳scoring='accuracy')
print("Accuracy en cada fold:", scores)
print("Accuracy promedio:", scores.mean())

# Entrena el modelo CatBoost en todos los datos de entrenamiento
catboost_model.fit(X_resampled, y_resampled)

# Realiza predicciones en el conjunto de prueba
y_pred = catboost_model.predict(X_resampled)

# Muestra el informe de clasificación en todos los datos
print("Informe de Clasificación en todos los datos:")
print(classification_report(y_resampled, y_pred))

# Matriz de Confusión en todos los datos
confusion = confusion_matrix(y_resampled, y_pred)
plt.figure(figsize=(8, 6))
sns.heatmap(confusion, annot=True, fmt="d", cmap="Blues")
plt.title("Matriz de Confusión en todos los datos")
plt.xlabel("Predicciones")
plt.ylabel("Valores Reales")
plt.show()
```

Learning rate set to 0.173965

0:	learn: 0.9717758	total: 203ms	remaining: 1m 41s
1:	learn: 0.8865097	total: 396ms	remaining: 1m 38s
2:	learn: 0.8261618	total: 605ms	remaining: 1m 40s
3:	learn: 0.7844919	total: 819ms	remaining: 1m 41s
4:	learn: 0.7350002	total: 1.04s	remaining: 1m 42s
5:	learn: 0.6889790	total: 1.26s	remaining: 1m 43s
6:	learn: 0.6183396	total: 1.45s	remaining: 1m 41s
7:	learn: 0.6015639	total: 1.65s	remaining: 1m 41s
8:	learn: 0.5453495	total: 1.87s	remaining: 1m 42s
9:	learn: 0.4985490	total: 2.11s	remaining: 1m 43s
10:	learn: 0.4639629	total: 2.31s	remaining: 1m 42s
11:	learn: 0.4354920	total: 2.58s	remaining: 1m 44s
12:	learn: 0.4133442	total: 2.88s	remaining: 1m 47s
13:	learn: 0.3944326	total: 3.16s	remaining: 1m 49s
14:	learn: 0.3778839	total: 3.42s	remaining: 1m 50s
15:	learn: 0.3568046	total: 3.71s	remaining: 1m 52s
16:	learn: 0.3400878	total: 4.01s	remaining: 1m 53s

17:	learn: 0.3373223	total: 4.3s	remaining: 1m 55s
18:	learn: 0.3235422	total: 4.56s	remaining: 1m 55s
19:	learn: 0.3124639	total: 4.88s	remaining: 1m 57s
20:	learn: 0.3105514	total: 5.15s	remaining: 1m 57s
21:	learn: 0.3014466	total: 5.38s	remaining: 1m 56s
22:	learn: 0.2999489	total: 5.63s	remaining: 1m 56s
23:	learn: 0.2986193	total: 5.86s	remaining: 1m 56s
24:	learn: 0.2969061	total: 6.11s	remaining: 1m 56s
25:	learn: 0.2897620	total: 6.38s	remaining: 1m 56s
26:	learn: 0.2841435	total: 6.63s	remaining: 1m 56s
27:	learn: 0.2792644	total: 6.89s	remaining: 1m 56s
28:	learn: 0.2752541	total: 7.15s	remaining: 1m 56s
29:	learn: 0.2742867	total: 7.4s	remaining: 1m 55s
30:	learn: 0.2692209	total: 7.65s	remaining: 1m 55s
31:	learn: 0.2642860	total: 7.89s	remaining: 1m 55s
32:	learn: 0.2636422	total: 8.12s	remaining: 1m 54s
33:	learn: 0.2598800	total: 8.36s	remaining: 1m 54s
34:	learn: 0.2589726	total: 8.61s	remaining: 1m 54s
35:	learn: 0.2569579	total: 8.84s	remaining: 1m 53s
36:	learn: 0.2542050	total: 9.1s	remaining: 1m 53s
37:	learn: 0.2538064	total: 9.35s	remaining: 1m 53s
38:	learn: 0.2531771	total: 9.57s	remaining: 1m 53s
39:	learn: 0.2527405	total: 9.81s	remaining: 1m 52s
40:	learn: 0.2523588	total: 10.1s	remaining: 1m 52s
41:	learn: 0.2516418	total: 10.3s	remaining: 1m 52s
42:	learn: 0.2510334	total: 10.6s	remaining: 1m 52s
43:	learn: 0.2506541	total: 10.8s	remaining: 1m 52s
44:	learn: 0.2502943	total: 11.1s	remaining: 1m 51s
45:	learn: 0.2500886	total: 11.3s	remaining: 1m 51s
46:	learn: 0.2496632	total: 11.6s	remaining: 1m 51s
47:	learn: 0.2494518	total: 11.8s	remaining: 1m 51s
48:	learn: 0.2491228	total: 12.1s	remaining: 1m 51s
49:	learn: 0.2489543	total: 12.3s	remaining: 1m 51s
50:	learn: 0.2487213	total: 12.6s	remaining: 1m 50s
51:	learn: 0.2477462	total: 12.9s	remaining: 1m 50s
52:	learn: 0.2463966	total: 13.1s	remaining: 1m 50s
53:	learn: 0.2459535	total: 13.4s	remaining: 1m 50s
54:	learn: 0.2455480	total: 13.7s	remaining: 1m 50s
55:	learn: 0.2449430	total: 13.9s	remaining: 1m 50s
56:	learn: 0.2448556	total: 14.2s	remaining: 1m 49s
57:	learn: 0.2444547	total: 14.4s	remaining: 1m 49s
58:	learn: 0.2441215	total: 14.7s	remaining: 1m 49s
59:	learn: 0.2434459	total: 15s	remaining: 1m 49s
60:	learn: 0.2433128	total: 15.2s	remaining: 1m 49s
61:	learn: 0.2430129	total: 15.5s	remaining: 1m 49s
62:	learn: 0.2429127	total: 15.8s	remaining: 1m 49s
63:	learn: 0.2411392	total: 16.1s	remaining: 1m 49s
64:	learn: 0.2408940	total: 16.4s	remaining: 1m 49s

65:	learn: 0.2408211	total: 16.6s	remaining: 1m 49s
66:	learn: 0.2407746	total: 16.9s	remaining: 1m 49s
67:	learn: 0.2405824	total: 17.1s	remaining: 1m 48s
68:	learn: 0.2404860	total: 17.4s	remaining: 1m 48s
69:	learn: 0.2403232	total: 17.7s	remaining: 1m 48s
70:	learn: 0.2400895	total: 17.9s	remaining: 1m 48s
71:	learn: 0.2399000	total: 18.2s	remaining: 1m 47s
72:	learn: 0.2397849	total: 18.4s	remaining: 1m 47s
73:	learn: 0.2395671	total: 18.7s	remaining: 1m 47s
74:	learn: 0.2394920	total: 18.9s	remaining: 1m 47s
75:	learn: 0.2393283	total: 19.2s	remaining: 1m 47s
76:	learn: 0.2391233	total: 19.5s	remaining: 1m 47s
77:	learn: 0.2389341	total: 19.8s	remaining: 1m 47s
78:	learn: 0.2386746	total: 20s	remaining: 1m 46s
79:	learn: 0.2386006	total: 20.3s	remaining: 1m 46s
80:	learn: 0.2382283	total: 20.5s	remaining: 1m 46s
81:	learn: 0.2381012	total: 20.8s	remaining: 1m 46s
82:	learn: 0.2379371	total: 21.1s	remaining: 1m 45s
83:	learn: 0.2377893	total: 21.4s	remaining: 1m 45s
84:	learn: 0.2377368	total: 21.6s	remaining: 1m 45s
85:	learn: 0.2374487	total: 21.9s	remaining: 1m 45s
86:	learn: 0.2372994	total: 22.1s	remaining: 1m 45s
87:	learn: 0.2372504	total: 22.4s	remaining: 1m 44s
88:	learn: 0.2371970	total: 22.6s	remaining: 1m 44s
89:	learn: 0.2370518	total: 22.8s	remaining: 1m 43s
90:	learn: 0.2367592	total: 23.1s	remaining: 1m 43s
91:	learn: 0.2366568	total: 23.4s	remaining: 1m 43s
92:	learn: 0.2365531	total: 23.6s	remaining: 1m 43s
93:	learn: 0.2363914	total: 23.8s	remaining: 1m 42s
94:	learn: 0.2363700	total: 24.1s	remaining: 1m 42s
95:	learn: 0.2363181	total: 24.3s	remaining: 1m 42s
96:	learn: 0.2362079	total: 24.6s	remaining: 1m 42s
97:	learn: 0.2360524	total: 24.8s	remaining: 1m 41s
98:	learn: 0.2359347	total: 25s	remaining: 1m 41s
99:	learn: 0.2357849	total: 25.3s	remaining: 1m 41s
100:	learn: 0.2356764	total: 25.5s	remaining: 1m 40s
101:	learn: 0.2356419	total: 25.7s	remaining: 1m 40s
102:	learn: 0.2355757	total: 26s	remaining: 1m 40s
103:	learn: 0.2354124	total: 26.2s	remaining: 1m 39s
104:	learn: 0.2352324	total: 26.5s	remaining: 1m 39s
105:	learn: 0.2351485	total: 26.7s	remaining: 1m 39s
106:	learn: 0.2350955	total: 26.9s	remaining: 1m 38s
107:	learn: 0.2350112	total: 27.1s	remaining: 1m 38s
108:	learn: 0.2343942	total: 27.3s	remaining: 1m 38s
109:	learn: 0.2342677	total: 27.6s	remaining: 1m 37s
110:	learn: 0.2341530	total: 27.8s	remaining: 1m 37s
111:	learn: 0.2331275	total: 28.1s	remaining: 1m 37s
112:	learn: 0.2330325	total: 28.3s	remaining: 1m 36s

113:	learn: 0.2329778	total: 28.6s	remaining: 1m 36s
114:	learn: 0.2328220	total: 28.8s	remaining: 1m 36s
115:	learn: 0.2327681	total: 29.1s	remaining: 1m 36s
116:	learn: 0.2326699	total: 29.3s	remaining: 1m 36s
117:	learn: 0.2326000	total: 29.6s	remaining: 1m 35s
118:	learn: 0.2325788	total: 29.8s	remaining: 1m 35s
119:	learn: 0.2325490	total: 30.1s	remaining: 1m 35s
120:	learn: 0.2324461	total: 30.3s	remaining: 1m 35s
121:	learn: 0.2323698	total: 30.6s	remaining: 1m 34s
122:	learn: 0.2322733	total: 30.9s	remaining: 1m 34s
123:	learn: 0.2322020	total: 31.1s	remaining: 1m 34s
124:	learn: 0.2320709	total: 31.4s	remaining: 1m 34s
125:	learn: 0.2320197	total: 31.7s	remaining: 1m 34s
126:	learn: 0.2318525	total: 32s	remaining: 1m 33s
127:	learn: 0.2315421	total: 32.3s	remaining: 1m 33s
128:	learn: 0.2315092	total: 32.5s	remaining: 1m 33s
129:	learn: 0.2314392	total: 32.8s	remaining: 1m 33s
130:	learn: 0.2313584	total: 33s	remaining: 1m 33s
131:	learn: 0.2312542	total: 33.3s	remaining: 1m 32s
132:	learn: 0.2311664	total: 33.6s	remaining: 1m 32s
133:	learn: 0.2309438	total: 33.8s	remaining: 1m 32s
134:	learn: 0.2309217	total: 34.1s	remaining: 1m 32s
135:	learn: 0.2308828	total: 34.3s	remaining: 1m 31s
136:	learn: 0.2307955	total: 34.6s	remaining: 1m 31s
137:	learn: 0.2307073	total: 34.8s	remaining: 1m 31s
138:	learn: 0.2306784	total: 35.1s	remaining: 1m 31s
139:	learn: 0.2305547	total: 35.3s	remaining: 1m 30s
140:	learn: 0.2304928	total: 35.6s	remaining: 1m 30s
141:	learn: 0.2304449	total: 35.9s	remaining: 1m 30s
142:	learn: 0.2302295	total: 36.1s	remaining: 1m 30s
143:	learn: 0.2301908	total: 36.4s	remaining: 1m 29s
144:	learn: 0.2301549	total: 36.7s	remaining: 1m 29s
145:	learn: 0.2300892	total: 36.9s	remaining: 1m 29s
146:	learn: 0.2299422	total: 37.2s	remaining: 1m 29s
147:	learn: 0.2298808	total: 37.4s	remaining: 1m 28s
148:	learn: 0.2298644	total: 37.7s	remaining: 1m 28s
149:	learn: 0.2298021	total: 37.9s	remaining: 1m 28s
150:	learn: 0.2297351	total: 38.1s	remaining: 1m 28s
151:	learn: 0.2296058	total: 38.4s	remaining: 1m 27s
152:	learn: 0.2294388	total: 38.7s	remaining: 1m 27s
153:	learn: 0.2293426	total: 38.9s	remaining: 1m 27s
154:	learn: 0.2292840	total: 39.2s	remaining: 1m 27s
155:	learn: 0.2291974	total: 39.4s	remaining: 1m 26s
156:	learn: 0.2290925	total: 39.7s	remaining: 1m 26s
157:	learn: 0.2289467	total: 39.9s	remaining: 1m 26s
158:	learn: 0.2289058	total: 40.2s	remaining: 1m 26s
159:	learn: 0.2288144	total: 40.4s	remaining: 1m 25s
160:	learn: 0.2286941	total: 40.6s	remaining: 1m 25s

161:	learn: 0.2285838	total: 40.9s	remaining: 1m 25s
162:	learn: 0.2284841	total: 41.1s	remaining: 1m 24s
163:	learn: 0.2283704	total: 41.3s	remaining: 1m 24s
164:	learn: 0.2282488	total: 41.4s	remaining: 1m 24s
165:	learn: 0.2281916	total: 41.6s	remaining: 1m 23s
166:	learn: 0.2281258	total: 41.9s	remaining: 1m 23s
167:	learn: 0.2280668	total: 42.1s	remaining: 1m 23s
168:	learn: 0.2279780	total: 42.3s	remaining: 1m 22s
169:	learn: 0.2279386	total: 42.5s	remaining: 1m 22s
170:	learn: 0.2278445	total: 42.6s	remaining: 1m 22s
171:	learn: 0.2278220	total: 42.8s	remaining: 1m 21s
172:	learn: 0.2276996	total: 43s	remaining: 1m 21s
173:	learn: 0.2276677	total: 43.2s	remaining: 1m 20s
174:	learn: 0.2275198	total: 43.4s	remaining: 1m 20s
175:	learn: 0.2273387	total: 43.5s	remaining: 1m 20s
176:	learn: 0.2272383	total: 43.8s	remaining: 1m 19s
177:	learn: 0.2271639	total: 44s	remaining: 1m 19s
178:	learn: 0.2270656	total: 44.3s	remaining: 1m 19s
179:	learn: 0.2270385	total: 44.5s	remaining: 1m 19s
180:	learn: 0.2268366	total: 44.7s	remaining: 1m 18s
181:	learn: 0.2266778	total: 45s	remaining: 1m 18s
182:	learn: 0.2265298	total: 45.3s	remaining: 1m 18s
183:	learn: 0.2264098	total: 45.5s	remaining: 1m 18s
184:	learn: 0.2262831	total: 45.8s	remaining: 1m 17s
185:	learn: 0.2261934	total: 46.1s	remaining: 1m 17s
186:	learn: 0.2261160	total: 46.3s	remaining: 1m 17s
187:	learn: 0.2260138	total: 46.6s	remaining: 1m 17s
188:	learn: 0.2259893	total: 46.8s	remaining: 1m 17s
189:	learn: 0.2259592	total: 47.1s	remaining: 1m 16s
190:	learn: 0.2259350	total: 47.3s	remaining: 1m 16s
191:	learn: 0.2258737	total: 47.6s	remaining: 1m 16s
192:	learn: 0.2258490	total: 47.8s	remaining: 1m 16s
193:	learn: 0.2257468	total: 48.1s	remaining: 1m 15s
194:	learn: 0.2256162	total: 48.4s	remaining: 1m 15s
195:	learn: 0.2255495	total: 48.6s	remaining: 1m 15s
196:	learn: 0.2254759	total: 48.9s	remaining: 1m 15s
197:	learn: 0.2253564	total: 49.1s	remaining: 1m 14s
198:	learn: 0.2252782	total: 49.4s	remaining: 1m 14s
199:	learn: 0.2252160	total: 49.6s	remaining: 1m 14s
200:	learn: 0.2250980	total: 49.9s	remaining: 1m 14s
201:	learn: 0.2250664	total: 50.1s	remaining: 1m 13s
202:	learn: 0.2250160	total: 50.3s	remaining: 1m 13s
203:	learn: 0.2249350	total: 50.6s	remaining: 1m 13s
204:	learn: 0.2248767	total: 50.9s	remaining: 1m 13s
205:	learn: 0.2248693	total: 51.1s	remaining: 1m 12s
206:	learn: 0.2247674	total: 51.4s	remaining: 1m 12s
207:	learn: 0.2247350	total: 51.6s	remaining: 1m 12s
208:	learn: 0.2247094	total: 51.9s	remaining: 1m 12s

209:	learn: 0.2246215	total: 52.1s	remaining: 1m 12s
210:	learn: 0.2245307	total: 52.4s	remaining: 1m 11s
211:	learn: 0.2244292	total: 52.7s	remaining: 1m 11s
212:	learn: 0.2243349	total: 52.9s	remaining: 1m 11s
213:	learn: 0.2242942	total: 53.1s	remaining: 1m 11s
214:	learn: 0.2242118	total: 53.4s	remaining: 1m 10s
215:	learn: 0.2241239	total: 53.7s	remaining: 1m 10s
216:	learn: 0.2240537	total: 53.9s	remaining: 1m 10s
217:	learn: 0.2239097	total: 54.2s	remaining: 1m 10s
218:	learn: 0.2238008	total: 54.4s	remaining: 1m 9s
219:	learn: 0.2236590	total: 54.7s	remaining: 1m 9s
220:	learn: 0.2235117	total: 54.9s	remaining: 1m 9s
221:	learn: 0.2234812	total: 55.2s	remaining: 1m 9s
222:	learn: 0.2233855	total: 55.4s	remaining: 1m 8s
223:	learn: 0.2233265	total: 55.6s	remaining: 1m 8s
224:	learn: 0.2232838	total: 55.9s	remaining: 1m 8s
225:	learn: 0.2232535	total: 56.1s	remaining: 1m 8s
226:	learn: 0.2232059	total: 56.3s	remaining: 1m 7s
227:	learn: 0.2230250	total: 56.6s	remaining: 1m 7s
228:	learn: 0.2229887	total: 56.8s	remaining: 1m 7s
229:	learn: 0.2229539	total: 57s	remaining: 1m 6s
230:	learn: 0.2228602	total: 57.2s	remaining: 1m 6s
231:	learn: 0.2227839	total: 57.4s	remaining: 1m 6s
232:	learn: 0.2227288	total: 57.7s	remaining: 1m 6s
233:	learn: 0.2226560	total: 57.9s	remaining: 1m 5s
234:	learn: 0.2226171	total: 58.2s	remaining: 1m 5s
235:	learn: 0.2225046	total: 58.4s	remaining: 1m 5s
236:	learn: 0.2224080	total: 58.6s	remaining: 1m 5s
237:	learn: 0.2223543	total: 58.9s	remaining: 1m 4s
238:	learn: 0.2223074	total: 59.1s	remaining: 1m 4s
239:	learn: 0.2222264	total: 59.3s	remaining: 1m 4s
240:	learn: 0.2221105	total: 59.6s	remaining: 1m 4s
241:	learn: 0.2219784	total: 59.8s	remaining: 1m 3s
242:	learn: 0.2219366	total: 1m	remaining: 1m 3s
243:	learn: 0.2218233	total: 1m	remaining: 1m 3s
244:	learn: 0.2218041	total: 1m	remaining: 1m 3s
245:	learn: 0.2217560	total: 1m	remaining: 1m 2s
246:	learn: 0.2217122	total: 1m 1s	remaining: 1m 2s
247:	learn: 0.2216090	total: 1m 1s	remaining: 1m 2s
248:	learn: 0.2214747	total: 1m 1s	remaining: 1m 2s
249:	learn: 0.2213631	total: 1m 1s	remaining: 1m 1s
250:	learn: 0.2213408	total: 1m 2s	remaining: 1m 1s
251:	learn: 0.2212552	total: 1m 2s	remaining: 1m 1s
252:	learn: 0.2211635	total: 1m 2s	remaining: 1m 1s
253:	learn: 0.2210843	total: 1m 2s	remaining: 1m
254:	learn: 0.2210103	total: 1m 3s	remaining: 1m
255:	learn: 0.2209847	total: 1m 3s	remaining: 1m
256:	learn: 0.2209055	total: 1m 3s	remaining: 1m

257:	learn: 0.2208347	total: 1m 3s	remaining: 59.8s
258:	learn: 0.2206894	total: 1m 4s	remaining: 59.6s
259:	learn: 0.2206086	total: 1m 4s	remaining: 59.3s
260:	learn: 0.2205708	total: 1m 4s	remaining: 59.1s
261:	learn: 0.2204880	total: 1m 4s	remaining: 58.9s
262:	learn: 0.2204136	total: 1m 5s	remaining: 58.6s
263:	learn: 0.2203700	total: 1m 5s	remaining: 58.4s
264:	learn: 0.2202705	total: 1m 5s	remaining: 58.1s
265:	learn: 0.2202227	total: 1m 5s	remaining: 57.9s
266:	learn: 0.2201734	total: 1m 6s	remaining: 57.6s
267:	learn: 0.2201505	total: 1m 6s	remaining: 57.4s
268:	learn: 0.2201061	total: 1m 6s	remaining: 57.1s
269:	learn: 0.2199616	total: 1m 6s	remaining: 56.9s
270:	learn: 0.2198782	total: 1m 7s	remaining: 56.7s
271:	learn: 0.2198236	total: 1m 7s	remaining: 56.4s
272:	learn: 0.2198053	total: 1m 7s	remaining: 56.2s
273:	learn: 0.2197355	total: 1m 7s	remaining: 55.9s
274:	learn: 0.2196243	total: 1m 8s	remaining: 55.7s
275:	learn: 0.2196009	total: 1m 8s	remaining: 55.5s
276:	learn: 0.2195258	total: 1m 8s	remaining: 55.2s
277:	learn: 0.2194743	total: 1m 8s	remaining: 55s
278:	learn: 0.2194298	total: 1m 9s	remaining: 54.8s
279:	learn: 0.2193047	total: 1m 9s	remaining: 54.5s
280:	learn: 0.2191818	total: 1m 9s	remaining: 54.3s
281:	learn: 0.2190962	total: 1m 9s	remaining: 54.1s
282:	learn: 0.2190463	total: 1m 10s	remaining: 53.8s
283:	learn: 0.2189801	total: 1m 10s	remaining: 53.6s
284:	learn: 0.2189621	total: 1m 10s	remaining: 53.3s
285:	learn: 0.2189144	total: 1m 10s	remaining: 53.1s
286:	learn: 0.2188923	total: 1m 11s	remaining: 52.9s
287:	learn: 0.2188630	total: 1m 11s	remaining: 52.6s
288:	learn: 0.2188153	total: 1m 11s	remaining: 52.3s
289:	learn: 0.2187668	total: 1m 11s	remaining: 52.1s
290:	learn: 0.2186252	total: 1m 12s	remaining: 51.8s
291:	learn: 0.2185833	total: 1m 12s	remaining: 51.6s
292:	learn: 0.2185032	total: 1m 12s	remaining: 51.4s
293:	learn: 0.2184604	total: 1m 12s	remaining: 51.1s
294:	learn: 0.2184369	total: 1m 13s	remaining: 50.8s
295:	learn: 0.2183309	total: 1m 13s	remaining: 50.5s
296:	learn: 0.2182509	total: 1m 13s	remaining: 50.2s
297:	learn: 0.2181394	total: 1m 13s	remaining: 49.9s
298:	learn: 0.2180746	total: 1m 13s	remaining: 49.6s
299:	learn: 0.2179810	total: 1m 13s	remaining: 49.3s
300:	learn: 0.2179348	total: 1m 14s	remaining: 49s
301:	learn: 0.2177744	total: 1m 14s	remaining: 48.7s
302:	learn: 0.2176723	total: 1m 14s	remaining: 48.4s
303:	learn: 0.2176183	total: 1m 14s	remaining: 48.1s
304:	learn: 0.2175931	total: 1m 14s	remaining: 47.9s

305:	learn: 0.2175635	total: 1m 15s	remaining: 47.6s
306:	learn: 0.2173886	total: 1m 15s	remaining: 47.3s
307:	learn: 0.2173149	total: 1m 15s	remaining: 47s
308:	learn: 0.2172400	total: 1m 15s	remaining: 46.8s
309:	learn: 0.2171654	total: 1m 15s	remaining: 46.5s
310:	learn: 0.2171055	total: 1m 16s	remaining: 46.3s
311:	learn: 0.2170435	total: 1m 16s	remaining: 46s
312:	learn: 0.2169709	total: 1m 16s	remaining: 45.7s
313:	learn: 0.2168974	total: 1m 16s	remaining: 45.5s
314:	learn: 0.2168385	total: 1m 17s	remaining: 45.3s
315:	learn: 0.2167483	total: 1m 17s	remaining: 45s
316:	learn: 0.2166409	total: 1m 17s	remaining: 44.8s
317:	learn: 0.2165449	total: 1m 17s	remaining: 44.6s
318:	learn: 0.2165253	total: 1m 18s	remaining: 44.3s
319:	learn: 0.2165136	total: 1m 18s	remaining: 44.1s
320:	learn: 0.2164272	total: 1m 18s	remaining: 43.8s
321:	learn: 0.2163884	total: 1m 18s	remaining: 43.6s
322:	learn: 0.2163330	total: 1m 19s	remaining: 43.4s
323:	learn: 0.2162588	total: 1m 19s	remaining: 43.1s
324:	learn: 0.2161792	total: 1m 19s	remaining: 42.9s
325:	learn: 0.2161588	total: 1m 19s	remaining: 42.7s
326:	learn: 0.2160368	total: 1m 20s	remaining: 42.4s
327:	learn: 0.2159762	total: 1m 20s	remaining: 42.2s
328:	learn: 0.2159341	total: 1m 20s	remaining: 42s
329:	learn: 0.2158688	total: 1m 20s	remaining: 41.7s
330:	learn: 0.2157794	total: 1m 21s	remaining: 41.5s
331:	learn: 0.2157213	total: 1m 21s	remaining: 41.2s
332:	learn: 0.2156011	total: 1m 21s	remaining: 41s
333:	learn: 0.2155293	total: 1m 22s	remaining: 40.8s
334:	learn: 0.2154549	total: 1m 22s	remaining: 40.5s
335:	learn: 0.2153323	total: 1m 22s	remaining: 40.3s
336:	learn: 0.2152866	total: 1m 22s	remaining: 40s
337:	learn: 0.2152033	total: 1m 22s	remaining: 39.8s
338:	learn: 0.2151680	total: 1m 23s	remaining: 39.5s
339:	learn: 0.2150675	total: 1m 23s	remaining: 39.3s
340:	learn: 0.2149382	total: 1m 23s	remaining: 39s
341:	learn: 0.2148592	total: 1m 23s	remaining: 38.8s
342:	learn: 0.2147869	total: 1m 24s	remaining: 38.5s
343:	learn: 0.2147591	total: 1m 24s	remaining: 38.3s
344:	learn: 0.2146721	total: 1m 24s	remaining: 38.1s
345:	learn: 0.2145234	total: 1m 24s	remaining: 37.8s
346:	learn: 0.2144827	total: 1m 25s	remaining: 37.6s
347:	learn: 0.2144302	total: 1m 25s	remaining: 37.3s
348:	learn: 0.2143945	total: 1m 25s	remaining: 37.1s
349:	learn: 0.2142907	total: 1m 26s	remaining: 36.9s
350:	learn: 0.2142180	total: 1m 26s	remaining: 36.6s
351:	learn: 0.2141244	total: 1m 26s	remaining: 36.4s
352:	learn: 0.2140620	total: 1m 26s	remaining: 36.2s

353:	learn: 0.2140193	total: 1m 27s	remaining: 35.9s
354:	learn: 0.2139379	total: 1m 27s	remaining: 35.7s
355:	learn: 0.2138420	total: 1m 27s	remaining: 35.4s
356:	learn: 0.2138146	total: 1m 27s	remaining: 35.2s
357:	learn: 0.2136872	total: 1m 28s	remaining: 34.9s
358:	learn: 0.2136523	total: 1m 28s	remaining: 34.7s
359:	learn: 0.2136285	total: 1m 28s	remaining: 34.4s
360:	learn: 0.2135720	total: 1m 28s	remaining: 34.2s
361:	learn: 0.2134868	total: 1m 28s	remaining: 33.9s
362:	learn: 0.2134614	total: 1m 29s	remaining: 33.7s
363:	learn: 0.2133926	total: 1m 29s	remaining: 33.4s
364:	learn: 0.2133236	total: 1m 29s	remaining: 33.2s
365:	learn: 0.2132666	total: 1m 29s	remaining: 32.9s
366:	learn: 0.2132006	total: 1m 30s	remaining: 32.7s
367:	learn: 0.2131349	total: 1m 30s	remaining: 32.4s
368:	learn: 0.2131165	total: 1m 30s	remaining: 32.2s
369:	learn: 0.2130549	total: 1m 30s	remaining: 31.9s
370:	learn: 0.2129983	total: 1m 31s	remaining: 31.7s
371:	learn: 0.2129687	total: 1m 31s	remaining: 31.4s
372:	learn: 0.2128755	total: 1m 31s	remaining: 31.2s
373:	learn: 0.2128445	total: 1m 31s	remaining: 30.9s
374:	learn: 0.2127017	total: 1m 32s	remaining: 30.7s
375:	learn: 0.2126214	total: 1m 32s	remaining: 30.4s
376:	learn: 0.2125320	total: 1m 32s	remaining: 30.2s
377:	learn: 0.2125178	total: 1m 32s	remaining: 30s
378:	learn: 0.2125064	total: 1m 33s	remaining: 29.7s
379:	learn: 0.2124440	total: 1m 33s	remaining: 29.5s
380:	learn: 0.2124252	total: 1m 33s	remaining: 29.2s
381:	learn: 0.2124115	total: 1m 33s	remaining: 29s
382:	learn: 0.2123429	total: 1m 34s	remaining: 28.7s
383:	learn: 0.2122485	total: 1m 34s	remaining: 28.5s
384:	learn: 0.2121387	total: 1m 34s	remaining: 28.3s
385:	learn: 0.2120437	total: 1m 34s	remaining: 28s
386:	learn: 0.2119491	total: 1m 35s	remaining: 27.8s
387:	learn: 0.2117993	total: 1m 35s	remaining: 27.5s
388:	learn: 0.2115814	total: 1m 35s	remaining: 27.3s
389:	learn: 0.2114001	total: 1m 35s	remaining: 27s
390:	learn: 0.2113241	total: 1m 36s	remaining: 26.8s
391:	learn: 0.2112697	total: 1m 36s	remaining: 26.6s
392:	learn: 0.2112348	total: 1m 36s	remaining: 26.3s
393:	learn: 0.2111255	total: 1m 36s	remaining: 26.1s
394:	learn: 0.2110137	total: 1m 37s	remaining: 25.8s
395:	learn: 0.2109432	total: 1m 37s	remaining: 25.6s
396:	learn: 0.2108494	total: 1m 37s	remaining: 25.3s
397:	learn: 0.2108219	total: 1m 37s	remaining: 25.1s
398:	learn: 0.2107373	total: 1m 38s	remaining: 24.8s
399:	learn: 0.2107012	total: 1m 38s	remaining: 24.6s
400:	learn: 0.2106685	total: 1m 38s	remaining: 24.3s

401:	learn: 0.2103381	total: 1m 38s	remaining: 24.1s
402:	learn: 0.2101828	total: 1m 39s	remaining: 23.9s
403:	learn: 0.2101195	total: 1m 39s	remaining: 23.6s
404:	learn: 0.2100516	total: 1m 39s	remaining: 23.4s
405:	learn: 0.2100060	total: 1m 39s	remaining: 23.1s
406:	learn: 0.2099543	total: 1m 40s	remaining: 22.9s
407:	learn: 0.2098995	total: 1m 40s	remaining: 22.7s
408:	learn: 0.2098516	total: 1m 40s	remaining: 22.4s
409:	learn: 0.2098036	total: 1m 40s	remaining: 22.2s
410:	learn: 0.2097634	total: 1m 41s	remaining: 21.9s
411:	learn: 0.2097428	total: 1m 41s	remaining: 21.7s
412:	learn: 0.2096390	total: 1m 41s	remaining: 21.4s
413:	learn: 0.2095623	total: 1m 42s	remaining: 21.2s
414:	learn: 0.2094887	total: 1m 42s	remaining: 20.9s
415:	learn: 0.2094225	total: 1m 42s	remaining: 20.7s
416:	learn: 0.2092643	total: 1m 42s	remaining: 20.5s
417:	learn: 0.2091827	total: 1m 43s	remaining: 20.2s
418:	learn: 0.2090250	total: 1m 43s	remaining: 20s
419:	learn: 0.2089899	total: 1m 43s	remaining: 19.7s
420:	learn: 0.2089113	total: 1m 43s	remaining: 19.4s
421:	learn: 0.2088994	total: 1m 43s	remaining: 19.2s
422:	learn: 0.2088503	total: 1m 43s	remaining: 18.9s
423:	learn: 0.2087846	total: 1m 44s	remaining: 18.7s
424:	learn: 0.2087644	total: 1m 44s	remaining: 18.4s
425:	learn: 0.2087313	total: 1m 44s	remaining: 18.2s
426:	learn: 0.2086882	total: 1m 44s	remaining: 17.9s
427:	learn: 0.2086698	total: 1m 44s	remaining: 17.6s
428:	learn: 0.2085218	total: 1m 45s	remaining: 17.4s
429:	learn: 0.2084830	total: 1m 45s	remaining: 17.1s
430:	learn: 0.2083423	total: 1m 45s	remaining: 16.9s
431:	learn: 0.2083214	total: 1m 45s	remaining: 16.6s
432:	learn: 0.2081891	total: 1m 45s	remaining: 16.4s
433:	learn: 0.2081491	total: 1m 46s	remaining: 16.1s
434:	learn: 0.2081005	total: 1m 46s	remaining: 15.9s
435:	learn: 0.2080292	total: 1m 46s	remaining: 15.6s
436:	learn: 0.2079885	total: 1m 46s	remaining: 15.4s
437:	learn: 0.2079209	total: 1m 47s	remaining: 15.1s
438:	learn: 0.2078777	total: 1m 47s	remaining: 14.9s
439:	learn: 0.2078158	total: 1m 47s	remaining: 14.6s
440:	learn: 0.2077865	total: 1m 47s	remaining: 14.4s
441:	learn: 0.2077395	total: 1m 47s	remaining: 14.1s
442:	learn: 0.2076344	total: 1m 47s	remaining: 13.9s
443:	learn: 0.2075640	total: 1m 48s	remaining: 13.7s
444:	learn: 0.2075603	total: 1m 48s	remaining: 13.4s
445:	learn: 0.2075377	total: 1m 48s	remaining: 13.2s
446:	learn: 0.2074660	total: 1m 48s	remaining: 12.9s
447:	learn: 0.2073949	total: 1m 49s	remaining: 12.7s
448:	learn: 0.2073194	total: 1m 49s	remaining: 12.4s

449:	learn: 0.2072699	total: 1m 49s	remaining: 12.2s
450:	learn: 0.2072314	total: 1m 49s	remaining: 11.9s
451:	learn: 0.2072050	total: 1m 50s	remaining: 11.7s
452:	learn: 0.2071214	total: 1m 50s	remaining: 11.5s
453:	learn: 0.2069957	total: 1m 50s	remaining: 11.2s
454:	learn: 0.2069492	total: 1m 51s	remaining: 11s
455:	learn: 0.2068855	total: 1m 51s	remaining: 10.7s
456:	learn: 0.2068241	total: 1m 51s	remaining: 10.5s
457:	learn: 0.2068084	total: 1m 51s	remaining: 10.2s
458:	learn: 0.2067497	total: 1m 52s	remaining: 10s
459:	learn: 0.2067089	total: 1m 52s	remaining: 9.76s
460:	learn: 0.2066158	total: 1m 52s	remaining: 9.52s
461:	learn: 0.2065934	total: 1m 52s	remaining: 9.28s
462:	learn: 0.2065306	total: 1m 53s	remaining: 9.03s
463:	learn: 0.2064747	total: 1m 53s	remaining: 8.79s
464:	learn: 0.2064216	total: 1m 53s	remaining: 8.54s
465:	learn: 0.2063656	total: 1m 53s	remaining: 8.3s
466:	learn: 0.2063482	total: 1m 54s	remaining: 8.06s
467:	learn: 0.2063087	total: 1m 54s	remaining: 7.81s
468:	learn: 0.2062628	total: 1m 54s	remaining: 7.57s
469:	learn: 0.2061684	total: 1m 54s	remaining: 7.33s
470:	learn: 0.2061285	total: 1m 55s	remaining: 7.08s
471:	learn: 0.2060663	total: 1m 55s	remaining: 6.84s
472:	learn: 0.2059661	total: 1m 55s	remaining: 6.6s
473:	learn: 0.2058114	total: 1m 55s	remaining: 6.36s
474:	learn: 0.2057722	total: 1m 56s	remaining: 6.11s
475:	learn: 0.2057213	total: 1m 56s	remaining: 5.87s
476:	learn: 0.2056878	total: 1m 56s	remaining: 5.62s
477:	learn: 0.2056666	total: 1m 56s	remaining: 5.38s
478:	learn: 0.2055822	total: 1m 57s	remaining: 5.13s
479:	learn: 0.2055430	total: 1m 57s	remaining: 4.89s
480:	learn: 0.2055055	total: 1m 57s	remaining: 4.65s
481:	learn: 0.2054655	total: 1m 57s	remaining: 4.4s
482:	learn: 0.2053851	total: 1m 58s	remaining: 4.16s
483:	learn: 0.2053727	total: 1m 58s	remaining: 3.92s
484:	learn: 0.2053160	total: 1m 58s	remaining: 3.67s
485:	learn: 0.2052935	total: 1m 58s	remaining: 3.43s
486:	learn: 0.2052651	total: 1m 59s	remaining: 3.18s
487:	learn: 0.2052488	total: 1m 59s	remaining: 2.94s
488:	learn: 0.2051817	total: 1m 59s	remaining: 2.69s
489:	learn: 0.2051386	total: 1m 59s	remaining: 2.45s
490:	learn: 0.2050333	total: 2m	remaining: 2.2s
491:	learn: 0.2049638	total: 2m	remaining: 1.96s
492:	learn: 0.2049124	total: 2m	remaining: 1.71s
493:	learn: 0.2048776	total: 2m	remaining: 1.47s
494:	learn: 0.2048443	total: 2m 1s	remaining: 1.22s
495:	learn: 0.2048233	total: 2m 1s	remaining: 978ms
496:	learn: 0.2047665	total: 2m 1s	remaining: 733ms

497:	learn: 0.2047465	total: 2m 1s	remaining: 489ms
498:	learn: 0.2045844	total: 2m 1s	remaining: 244ms
499:	learn: 0.2044778	total: 2m 2s	remaining: 0us

Learning rate set to 0.173965

0:	learn: 0.9720313	total: 239ms	remaining: 1m 59s
1:	learn: 0.8887602	total: 441ms	remaining: 1m 49s
2:	learn: 0.8293736	total: 642ms	remaining: 1m 46s
3:	learn: 0.7853606	total: 811ms	remaining: 1m 40s
4:	learn: 0.7149754	total: 982ms	remaining: 1m 37s
5:	learn: 0.6586650	total: 1.16s	remaining: 1m 35s
6:	learn: 0.5814271	total: 1.35s	remaining: 1m 35s
7:	learn: 0.5651943	total: 1.53s	remaining: 1m 33s
8:	learn: 0.5146840	total: 1.75s	remaining: 1m 35s
9:	learn: 0.4776037	total: 1.94s	remaining: 1m 34s
10:	learn: 0.4469732	total: 2.15s	remaining: 1m 35s
11:	learn: 0.4230889	total: 2.33s	remaining: 1m 34s
12:	learn: 0.4042857	total: 2.54s	remaining: 1m 35s
13:	learn: 0.3789801	total: 2.77s	remaining: 1m 36s
14:	learn: 0.3582534	total: 3.02s	remaining: 1m 37s
15:	learn: 0.3416880	total: 3.27s	remaining: 1m 39s
16:	learn: 0.3285493	total: 3.53s	remaining: 1m 40s
17:	learn: 0.3171411	total: 3.8s	remaining: 1m 41s
18:	learn: 0.3141909	total: 4.08s	remaining: 1m 43s
19:	learn: 0.3051798	total: 4.36s	remaining: 1m 44s
20:	learn: 0.3026460	total: 4.66s	remaining: 1m 46s
21:	learn: 0.2951289	total: 4.92s	remaining: 1m 46s
22:	learn: 0.2893399	total: 5.24s	remaining: 1m 48s
23:	learn: 0.2840770	total: 5.51s	remaining: 1m 49s
24:	learn: 0.2796723	total: 5.79s	remaining: 1m 49s
25:	learn: 0.2761654	total: 6.06s	remaining: 1m 50s
26:	learn: 0.2753142	total: 6.33s	remaining: 1m 50s
27:	learn: 0.2735427	total: 6.61s	remaining: 1m 51s
28:	learn: 0.2726783	total: 6.89s	remaining: 1m 51s
29:	learn: 0.2710350	total: 7.17s	remaining: 1m 52s
30:	learn: 0.2703920	total: 7.45s	remaining: 1m 52s
31:	learn: 0.2698675	total: 7.69s	remaining: 1m 52s
32:	learn: 0.2692589	total: 7.96s	remaining: 1m 52s
33:	learn: 0.2685581	total: 8.25s	remaining: 1m 53s
34:	learn: 0.2670938	total: 8.5s	remaining: 1m 52s
35:	learn: 0.2666327	total: 8.79s	remaining: 1m 53s
36:	learn: 0.2659570	total: 9.03s	remaining: 1m 52s
37:	learn: 0.2622607	total: 9.29s	remaining: 1m 52s
38:	learn: 0.2615668	total: 9.63s	remaining: 1m 53s
39:	learn: 0.2611227	total: 9.95s	remaining: 1m 54s
40:	learn: 0.2593141	total: 10.3s	remaining: 1m 54s
41:	learn: 0.2587649	total: 10.6s	remaining: 1m 55s
42:	learn: 0.2582755	total: 10.9s	remaining: 1m 55s
43:	learn: 0.2576461	total: 11.2s	remaining: 1m 56s

44:	learn: 0.2571301	total: 11.5s	remaining: 1m 56s
45:	learn: 0.2570418	total: 11.7s	remaining: 1m 55s
46:	learn: 0.2566616	total: 12s	remaining: 1m 55s
47:	learn: 0.2560847	total: 12.3s	remaining: 1m 55s
48:	learn: 0.2551450	total: 12.5s	remaining: 1m 55s
49:	learn: 0.2548303	total: 12.8s	remaining: 1m 54s
50:	learn: 0.2545771	total: 13s	remaining: 1m 54s
51:	learn: 0.2543287	total: 13.3s	remaining: 1m 54s
52:	learn: 0.2542483	total: 13.5s	remaining: 1m 53s
53:	learn: 0.2540982	total: 13.7s	remaining: 1m 53s
54:	learn: 0.2529300	total: 14s	remaining: 1m 53s
55:	learn: 0.2528278	total: 14.3s	remaining: 1m 53s
56:	learn: 0.2526736	total: 14.5s	remaining: 1m 52s
57:	learn: 0.2522315	total: 14.7s	remaining: 1m 52s
58:	learn: 0.2519880	total: 15s	remaining: 1m 52s
59:	learn: 0.2509709	total: 15.2s	remaining: 1m 51s
60:	learn: 0.2490494	total: 15.5s	remaining: 1m 51s
61:	learn: 0.2485829	total: 15.8s	remaining: 1m 51s
62:	learn: 0.2484713	total: 16s	remaining: 1m 50s
63:	learn: 0.2483628	total: 16.2s	remaining: 1m 50s
64:	learn: 0.2480574	total: 16.5s	remaining: 1m 50s
65:	learn: 0.2473682	total: 16.8s	remaining: 1m 50s
66:	learn: 0.2469549	total: 17s	remaining: 1m 49s
67:	learn: 0.2467958	total: 17.3s	remaining: 1m 49s
68:	learn: 0.2465199	total: 17.5s	remaining: 1m 49s
69:	learn: 0.2463191	total: 17.8s	remaining: 1m 49s
70:	learn: 0.2462514	total: 18.1s	remaining: 1m 49s
71:	learn: 0.2461973	total: 18.3s	remaining: 1m 48s
72:	learn: 0.2459963	total: 18.6s	remaining: 1m 48s
73:	learn: 0.2456817	total: 18.9s	remaining: 1m 48s
74:	learn: 0.2452321	total: 19.3s	remaining: 1m 49s
75:	learn: 0.2450655	total: 19.6s	remaining: 1m 49s
76:	learn: 0.2447252	total: 19.9s	remaining: 1m 49s
77:	learn: 0.2443755	total: 20.2s	remaining: 1m 49s
78:	learn: 0.2442182	total: 20.6s	remaining: 1m 49s
79:	learn: 0.2440670	total: 20.8s	remaining: 1m 49s
80:	learn: 0.2439477	total: 21.1s	remaining: 1m 49s
81:	learn: 0.2438779	total: 21.4s	remaining: 1m 49s
82:	learn: 0.2437952	total: 21.7s	remaining: 1m 49s
83:	learn: 0.2436591	total: 22s	remaining: 1m 49s
84:	learn: 0.2434216	total: 22.3s	remaining: 1m 48s
85:	learn: 0.2432765	total: 22.5s	remaining: 1m 48s
86:	learn: 0.2431707	total: 22.8s	remaining: 1m 48s
87:	learn: 0.2428673	total: 23s	remaining: 1m 47s
88:	learn: 0.2427374	total: 23.3s	remaining: 1m 47s
89:	learn: 0.2423497	total: 23.6s	remaining: 1m 47s
90:	learn: 0.2413185	total: 23.9s	remaining: 1m 47s
91:	learn: 0.2411820	total: 24.1s	remaining: 1m 47s

92:	learn: 0.2410109	total: 24.4s	remaining: 1m 46s
93:	learn: 0.2408741	total: 24.7s	remaining: 1m 46s
94:	learn: 0.2407925	total: 25s	remaining: 1m 46s
95:	learn: 0.2407308	total: 25.2s	remaining: 1m 46s
96:	learn: 0.2400926	total: 25.5s	remaining: 1m 45s
97:	learn: 0.2387775	total: 25.7s	remaining: 1m 45s
98:	learn: 0.2383653	total: 25.9s	remaining: 1m 45s
99:	learn: 0.2380230	total: 26.2s	remaining: 1m 44s
100:	learn: 0.2376512	total: 26.4s	remaining: 1m 44s
101:	learn: 0.2374561	total: 26.7s	remaining: 1m 44s
102:	learn: 0.2372342	total: 26.9s	remaining: 1m 43s
103:	learn: 0.2370418	total: 27.2s	remaining: 1m 43s
104:	learn: 0.2369046	total: 27.4s	remaining: 1m 43s
105:	learn: 0.2368696	total: 27.6s	remaining: 1m 42s
106:	learn: 0.2366418	total: 27.9s	remaining: 1m 42s
107:	learn: 0.2365764	total: 28.2s	remaining: 1m 42s
108:	learn: 0.2363935	total: 28.4s	remaining: 1m 41s
109:	learn: 0.2360660	total: 28.7s	remaining: 1m 41s
110:	learn: 0.2358674	total: 29s	remaining: 1m 41s
111:	learn: 0.2357821	total: 29.3s	remaining: 1m 41s
112:	learn: 0.2356723	total: 29.5s	remaining: 1m 41s
113:	learn: 0.2355108	total: 29.8s	remaining: 1m 40s
114:	learn: 0.2352284	total: 30s	remaining: 1m 40s
115:	learn: 0.2351565	total: 30.2s	remaining: 1m 40s
116:	learn: 0.2351162	total: 30.5s	remaining: 1m 39s
117:	learn: 0.2349100	total: 30.7s	remaining: 1m 39s
118:	learn: 0.2348245	total: 30.9s	remaining: 1m 39s
119:	learn: 0.2347849	total: 31.2s	remaining: 1m 38s
120:	learn: 0.2347364	total: 31.4s	remaining: 1m 38s
121:	learn: 0.2345830	total: 31.7s	remaining: 1m 38s
122:	learn: 0.2344622	total: 31.9s	remaining: 1m 37s
123:	learn: 0.2344344	total: 32.1s	remaining: 1m 37s
124:	learn: 0.2343667	total: 32.4s	remaining: 1m 37s
125:	learn: 0.2341067	total: 32.6s	remaining: 1m 36s
126:	learn: 0.2340143	total: 32.9s	remaining: 1m 36s
127:	learn: 0.2339617	total: 33.1s	remaining: 1m 36s
128:	learn: 0.2338514	total: 33.4s	remaining: 1m 35s
129:	learn: 0.2337635	total: 33.6s	remaining: 1m 35s
130:	learn: 0.2335830	total: 33.9s	remaining: 1m 35s
131:	learn: 0.2334233	total: 34.1s	remaining: 1m 35s
132:	learn: 0.2333654	total: 34.4s	remaining: 1m 34s
133:	learn: 0.2332452	total: 34.6s	remaining: 1m 34s
134:	learn: 0.2329750	total: 34.9s	remaining: 1m 34s
135:	learn: 0.2329036	total: 35.2s	remaining: 1m 34s
136:	learn: 0.2327615	total: 35.5s	remaining: 1m 33s
137:	learn: 0.2326515	total: 35.7s	remaining: 1m 33s
138:	learn: 0.2325889	total: 36s	remaining: 1m 33s
139:	learn: 0.2323685	total: 36.2s	remaining: 1m 33s

140:	learn: 0.2323040	total: 36.5s	remaining: 1m 32s
141:	learn: 0.2322245	total: 36.8s	remaining: 1m 32s
142:	learn: 0.2321933	total: 37s	remaining: 1m 32s
143:	learn: 0.2321087	total: 37.3s	remaining: 1m 32s
144:	learn: 0.2319903	total: 37.5s	remaining: 1m 31s
145:	learn: 0.2318649	total: 37.8s	remaining: 1m 31s
146:	learn: 0.2317233	total: 38.1s	remaining: 1m 31s
147:	learn: 0.2315892	total: 38.3s	remaining: 1m 31s
148:	learn: 0.2315516	total: 38.6s	remaining: 1m 30s
149:	learn: 0.2314972	total: 38.8s	remaining: 1m 30s
150:	learn: 0.2313756	total: 39.1s	remaining: 1m 30s
151:	learn: 0.2311830	total: 39.3s	remaining: 1m 30s
152:	learn: 0.2310964	total: 39.6s	remaining: 1m 29s
153:	learn: 0.2309636	total: 39.9s	remaining: 1m 29s
154:	learn: 0.2306158	total: 40.1s	remaining: 1m 29s
155:	learn: 0.2304967	total: 40.4s	remaining: 1m 29s
156:	learn: 0.2304527	total: 40.7s	remaining: 1m 28s
157:	learn: 0.2303414	total: 40.9s	remaining: 1m 28s
158:	learn: 0.2302311	total: 41.2s	remaining: 1m 28s
159:	learn: 0.2301392	total: 41.5s	remaining: 1m 28s
160:	learn: 0.2300899	total: 41.8s	remaining: 1m 27s
161:	learn: 0.2300444	total: 42s	remaining: 1m 27s
162:	learn: 0.2299528	total: 42.3s	remaining: 1m 27s
163:	learn: 0.2298599	total: 42.6s	remaining: 1m 27s
164:	learn: 0.2297708	total: 42.8s	remaining: 1m 26s
165:	learn: 0.2296980	total: 43.1s	remaining: 1m 26s
166:	learn: 0.2295802	total: 43.3s	remaining: 1m 26s
167:	learn: 0.2295456	total: 43.6s	remaining: 1m 26s
168:	learn: 0.2294301	total: 43.9s	remaining: 1m 25s
169:	learn: 0.2293914	total: 44.1s	remaining: 1m 25s
170:	learn: 0.2291703	total: 44.4s	remaining: 1m 25s
171:	learn: 0.2290705	total: 44.6s	remaining: 1m 25s
172:	learn: 0.2290176	total: 44.9s	remaining: 1m 24s
173:	learn: 0.2289357	total: 45.2s	remaining: 1m 24s
174:	learn: 0.2288501	total: 45.4s	remaining: 1m 24s
175:	learn: 0.2288020	total: 45.7s	remaining: 1m 24s
176:	learn: 0.2287302	total: 46s	remaining: 1m 23s
177:	learn: 0.2286825	total: 46.3s	remaining: 1m 23s
178:	learn: 0.2285924	total: 46.6s	remaining: 1m 23s
179:	learn: 0.2283288	total: 46.8s	remaining: 1m 23s
180:	learn: 0.2282523	total: 47.1s	remaining: 1m 22s
181:	learn: 0.2281808	total: 47.3s	remaining: 1m 22s
182:	learn: 0.2281767	total: 47.5s	remaining: 1m 22s
183:	learn: 0.2280226	total: 47.8s	remaining: 1m 22s
184:	learn: 0.2279397	total: 48s	remaining: 1m 21s
185:	learn: 0.2277942	total: 48.3s	remaining: 1m 21s
186:	learn: 0.2277418	total: 48.5s	remaining: 1m 21s
187:	learn: 0.2276344	total: 48.7s	remaining: 1m 20s

188:	learn: 0.2275187	total: 49s	remaining: 1m 20s
189:	learn: 0.2274127	total: 49.2s	remaining: 1m 20s
190:	learn: 0.2273804	total: 49.5s	remaining: 1m 20s
191:	learn: 0.2272589	total: 49.7s	remaining: 1m 19s
192:	learn: 0.2272265	total: 49.9s	remaining: 1m 19s
193:	learn: 0.2270556	total: 50.1s	remaining: 1m 19s
194:	learn: 0.2269946	total: 50.3s	remaining: 1m 18s
195:	learn: 0.2269119	total: 50.5s	remaining: 1m 18s
196:	learn: 0.2267373	total: 50.7s	remaining: 1m 17s
197:	learn: 0.2266564	total: 50.9s	remaining: 1m 17s
198:	learn: 0.2265790	total: 51.1s	remaining: 1m 17s
199:	learn: 0.2265343	total: 51.3s	remaining: 1m 16s
200:	learn: 0.2264649	total: 51.5s	remaining: 1m 16s
201:	learn: 0.2264334	total: 51.7s	remaining: 1m 16s
202:	learn: 0.2263937	total: 51.9s	remaining: 1m 15s
203:	learn: 0.2263001	total: 52.1s	remaining: 1m 15s
204:	learn: 0.2261942	total: 52.4s	remaining: 1m 15s
205:	learn: 0.2258572	total: 52.6s	remaining: 1m 15s
206:	learn: 0.2257597	total: 52.9s	remaining: 1m 14s
207:	learn: 0.2257084	total: 53.2s	remaining: 1m 14s
208:	learn: 0.2256014	total: 53.4s	remaining: 1m 14s
209:	learn: 0.2255479	total: 53.6s	remaining: 1m 14s
210:	learn: 0.2254335	total: 53.9s	remaining: 1m 13s
211:	learn: 0.2253909	total: 54.1s	remaining: 1m 13s
212:	learn: 0.2253562	total: 54.4s	remaining: 1m 13s
213:	learn: 0.2252101	total: 54.7s	remaining: 1m 13s
214:	learn: 0.2251532	total: 55s	remaining: 1m 12s
215:	learn: 0.2251277	total: 55.2s	remaining: 1m 12s
216:	learn: 0.2250403	total: 55.5s	remaining: 1m 12s
217:	learn: 0.2250150	total: 55.7s	remaining: 1m 12s
218:	learn: 0.2249119	total: 56s	remaining: 1m 11s
219:	learn: 0.2248130	total: 56.2s	remaining: 1m 11s
220:	learn: 0.2247846	total: 56.5s	remaining: 1m 11s
221:	learn: 0.2246854	total: 56.8s	remaining: 1m 11s
222:	learn: 0.2246644	total: 57s	remaining: 1m 10s
223:	learn: 0.2245654	total: 57.3s	remaining: 1m 10s
224:	learn: 0.2244768	total: 57.6s	remaining: 1m 10s
225:	learn: 0.2243723	total: 57.9s	remaining: 1m 10s
226:	learn: 0.2243121	total: 58.1s	remaining: 1m 9s
227:	learn: 0.2242435	total: 58.4s	remaining: 1m 9s
228:	learn: 0.2241530	total: 58.7s	remaining: 1m 9s
229:	learn: 0.2241334	total: 59s	remaining: 1m 9s
230:	learn: 0.2240309	total: 59.3s	remaining: 1m 9s
231:	learn: 0.2239968	total: 59.5s	remaining: 1m 8s
232:	learn: 0.2239466	total: 59.8s	remaining: 1m 8s
233:	learn: 0.2239088	total: 1m	remaining: 1m 8s
234:	learn: 0.2238021	total: 1m	remaining: 1m 7s
235:	learn: 0.2237581	total: 1m	remaining: 1m 7s

236:	learn: 0.2236712	total: 1m	remaining: 1m 7s
237:	learn: 0.2236176	total: 1m	remaining: 1m 7s
238:	learn: 0.2235992	total: 1m 1s	remaining: 1m 6s
239:	learn: 0.2235387	total: 1m 1s	remaining: 1m 6s
240:	learn: 0.2234987	total: 1m 1s	remaining: 1m 6s
241:	learn: 0.2234438	total: 1m 1s	remaining: 1m 5s
242:	learn: 0.2234130	total: 1m 2s	remaining: 1m 5s
243:	learn: 0.2233108	total: 1m 2s	remaining: 1m 5s
244:	learn: 0.2232076	total: 1m 2s	remaining: 1m 5s
245:	learn: 0.2230930	total: 1m 2s	remaining: 1m 4s
246:	learn: 0.2230610	total: 1m 3s	remaining: 1m 4s
247:	learn: 0.2230036	total: 1m 3s	remaining: 1m 4s
248:	learn: 0.2229515	total: 1m 3s	remaining: 1m 4s
249:	learn: 0.2228598	total: 1m 3s	remaining: 1m 3s
250:	learn: 0.2228051	total: 1m 4s	remaining: 1m 3s
251:	learn: 0.2227644	total: 1m 4s	remaining: 1m 3s
252:	learn: 0.2227541	total: 1m 4s	remaining: 1m 2s
253:	learn: 0.2226453	total: 1m 4s	remaining: 1m 2s
254:	learn: 0.2225940	total: 1m 4s	remaining: 1m 2s
255:	learn: 0.2225600	total: 1m 5s	remaining: 1m 2s
256:	learn: 0.2225373	total: 1m 5s	remaining: 1m 1s
257:	learn: 0.2224928	total: 1m 5s	remaining: 1m 1s
258:	learn: 0.2224752	total: 1m 6s	remaining: 1m 1s
259:	learn: 0.2223944	total: 1m 6s	remaining: 1m 1s
260:	learn: 0.2223075	total: 1m 6s	remaining: 1m
261:	learn: 0.2221727	total: 1m 6s	remaining: 1m
262:	learn: 0.2220966	total: 1m 7s	remaining: 1m
263:	learn: 0.2220028	total: 1m 7s	remaining: 1m
264:	learn: 0.2218470	total: 1m 7s	remaining: 59.9s
265:	learn: 0.2217991	total: 1m 7s	remaining: 59.7s
266:	learn: 0.2217569	total: 1m 8s	remaining: 59.4s
267:	learn: 0.2216714	total: 1m 8s	remaining: 59.2s
268:	learn: 0.2216660	total: 1m 8s	remaining: 58.9s
269:	learn: 0.2215165	total: 1m 8s	remaining: 58.7s
270:	learn: 0.2214518	total: 1m 9s	remaining: 58.4s
271:	learn: 0.2214152	total: 1m 9s	remaining: 58.2s
272:	learn: 0.2213756	total: 1m 9s	remaining: 58s
273:	learn: 0.2212204	total: 1m 9s	remaining: 57.7s
274:	learn: 0.2211988	total: 1m 10s	remaining: 57.4s
275:	learn: 0.2211425	total: 1m 10s	remaining: 57.1s
276:	learn: 0.2210731	total: 1m 10s	remaining: 56.8s
277:	learn: 0.2210070	total: 1m 10s	remaining: 56.5s
278:	learn: 0.2209122	total: 1m 11s	remaining: 56.2s
279:	learn: 0.2208559	total: 1m 11s	remaining: 56s
280:	learn: 0.2207397	total: 1m 11s	remaining: 55.7s
281:	learn: 0.2207079	total: 1m 11s	remaining: 55.4s
282:	learn: 0.2206537	total: 1m 11s	remaining: 55.1s
283:	learn: 0.2205483	total: 1m 12s	remaining: 54.8s

284:	learn: 0.2204289	total: 1m 12s	remaining: 54.5s
285:	learn: 0.2203085	total: 1m 12s	remaining: 54.2s
286:	learn: 0.2201905	total: 1m 12s	remaining: 53.9s
287:	learn: 0.2201392	total: 1m 12s	remaining: 53.6s
288:	learn: 0.2200261	total: 1m 13s	remaining: 53.4s
289:	learn: 0.2198910	total: 1m 13s	remaining: 53.1s
290:	learn: 0.2198259	total: 1m 13s	remaining: 52.9s
291:	learn: 0.2197626	total: 1m 13s	remaining: 52.6s
292:	learn: 0.2196879	total: 1m 14s	remaining: 52.4s
293:	learn: 0.2196104	total: 1m 14s	remaining: 52.1s
294:	learn: 0.2195677	total: 1m 14s	remaining: 51.9s
295:	learn: 0.2195356	total: 1m 14s	remaining: 51.7s
296:	learn: 0.2194552	total: 1m 15s	remaining: 51.4s
297:	learn: 0.2194165	total: 1m 15s	remaining: 51.1s
298:	learn: 0.2193304	total: 1m 15s	remaining: 50.9s
299:	learn: 0.2192700	total: 1m 15s	remaining: 50.6s
300:	learn: 0.2192508	total: 1m 16s	remaining: 50.3s
301:	learn: 0.2176043	total: 1m 16s	remaining: 50.1s
302:	learn: 0.2175378	total: 1m 16s	remaining: 49.8s
303:	learn: 0.2175134	total: 1m 16s	remaining: 49.6s
304:	learn: 0.2174586	total: 1m 17s	remaining: 49.3s
305:	learn: 0.2172992	total: 1m 17s	remaining: 49.1s
306:	learn: 0.2171978	total: 1m 17s	remaining: 48.8s
307:	learn: 0.2170718	total: 1m 17s	remaining: 48.6s
308:	learn: 0.2169883	total: 1m 18s	remaining: 48.3s
309:	learn: 0.2168556	total: 1m 18s	remaining: 48.1s
310:	learn: 0.2167912	total: 1m 18s	remaining: 47.8s
311:	learn: 0.2167431	total: 1m 18s	remaining: 47.5s
312:	learn: 0.2166671	total: 1m 19s	remaining: 47.3s
313:	learn: 0.2166374	total: 1m 19s	remaining: 47s
314:	learn: 0.2165893	total: 1m 19s	remaining: 46.7s
315:	learn: 0.2164657	total: 1m 19s	remaining: 46.5s
316:	learn: 0.2164204	total: 1m 20s	remaining: 46.2s
317:	learn: 0.2163459	total: 1m 20s	remaining: 46s
318:	learn: 0.2162653	total: 1m 20s	remaining: 45.7s
319:	learn: 0.2161947	total: 1m 20s	remaining: 45.4s
320:	learn: 0.2161753	total: 1m 21s	remaining: 45.2s
321:	learn: 0.2161258	total: 1m 21s	remaining: 44.9s
322:	learn: 0.2160008	total: 1m 21s	remaining: 44.6s
323:	learn: 0.2159180	total: 1m 21s	remaining: 44.3s
324:	learn: 0.2158645	total: 1m 21s	remaining: 44s
325:	learn: 0.2157880	total: 1m 22s	remaining: 43.8s
326:	learn: 0.2157556	total: 1m 22s	remaining: 43.5s
327:	learn: 0.2157253	total: 1m 22s	remaining: 43.2s
328:	learn: 0.2156796	total: 1m 22s	remaining: 42.9s
329:	learn: 0.2155975	total: 1m 22s	remaining: 42.6s
330:	learn: 0.2155182	total: 1m 22s	remaining: 42.4s
331:	learn: 0.2154554	total: 1m 23s	remaining: 42.1s

332:	learn: 0.2153962	total: 1m 23s	remaining: 41.8s
333:	learn: 0.2152749	total: 1m 23s	remaining: 41.5s
334:	learn: 0.2151812	total: 1m 23s	remaining: 41.3s
335:	learn: 0.2151478	total: 1m 24s	remaining: 41s
336:	learn: 0.2151124	total: 1m 24s	remaining: 40.8s
337:	learn: 0.2150115	total: 1m 24s	remaining: 40.5s
338:	learn: 0.2148973	total: 1m 24s	remaining: 40.3s
339:	learn: 0.2148030	total: 1m 25s	remaining: 40.1s
340:	learn: 0.2147583	total: 1m 25s	remaining: 39.8s
341:	learn: 0.2146628	total: 1m 25s	remaining: 39.6s
342:	learn: 0.2146315	total: 1m 25s	remaining: 39.3s
343:	learn: 0.2145960	total: 1m 26s	remaining: 39.1s
344:	learn: 0.2145395	total: 1m 26s	remaining: 38.8s
345:	learn: 0.2144936	total: 1m 26s	remaining: 38.6s
346:	learn: 0.2143872	total: 1m 27s	remaining: 38.4s
347:	learn: 0.2143674	total: 1m 27s	remaining: 38.2s
348:	learn: 0.2142222	total: 1m 27s	remaining: 37.9s
349:	learn: 0.2142122	total: 1m 27s	remaining: 37.7s
350:	learn: 0.2141780	total: 1m 28s	remaining: 37.4s
351:	learn: 0.2141322	total: 1m 28s	remaining: 37.2s
352:	learn: 0.2140437	total: 1m 28s	remaining: 36.9s
353:	learn: 0.2139128	total: 1m 28s	remaining: 36.7s
354:	learn: 0.2137687	total: 1m 29s	remaining: 36.4s
355:	learn: 0.2136727	total: 1m 29s	remaining: 36.2s
356:	learn: 0.2135919	total: 1m 29s	remaining: 36s
357:	learn: 0.2135379	total: 1m 30s	remaining: 35.7s
358:	learn: 0.2134981	total: 1m 30s	remaining: 35.5s
359:	learn: 0.2134592	total: 1m 30s	remaining: 35.2s
360:	learn: 0.2134087	total: 1m 30s	remaining: 35s
361:	learn: 0.2133212	total: 1m 31s	remaining: 34.7s
362:	learn: 0.2132611	total: 1m 31s	remaining: 34.5s
363:	learn: 0.2131689	total: 1m 31s	remaining: 34.3s
364:	learn: 0.2131109	total: 1m 31s	remaining: 34s
365:	learn: 0.2130766	total: 1m 32s	remaining: 33.8s
366:	learn: 0.2130547	total: 1m 32s	remaining: 33.5s
367:	learn: 0.2130281	total: 1m 32s	remaining: 33.2s
368:	learn: 0.2129804	total: 1m 32s	remaining: 33s
369:	learn: 0.2129122	total: 1m 33s	remaining: 32.7s
370:	learn: 0.2128817	total: 1m 33s	remaining: 32.5s
371:	learn: 0.2128340	total: 1m 33s	remaining: 32.2s
372:	learn: 0.2126989	total: 1m 33s	remaining: 32s
373:	learn: 0.2126176	total: 1m 34s	remaining: 31.7s
374:	learn: 0.2125956	total: 1m 34s	remaining: 31.5s
375:	learn: 0.2124943	total: 1m 34s	remaining: 31.2s
376:	learn: 0.2124286	total: 1m 34s	remaining: 30.9s
377:	learn: 0.2123516	total: 1m 35s	remaining: 30.7s
378:	learn: 0.2122950	total: 1m 35s	remaining: 30.4s
379:	learn: 0.2122691	total: 1m 35s	remaining: 30.2s

380:	learn: 0.2121852	total: 1m 35s	remaining: 30s
381:	learn: 0.2121634	total: 1m 36s	remaining: 29.7s
382:	learn: 0.2121074	total: 1m 36s	remaining: 29.5s
383:	learn: 0.2120653	total: 1m 36s	remaining: 29.2s
384:	learn: 0.2119045	total: 1m 36s	remaining: 29s
385:	learn: 0.2118388	total: 1m 37s	remaining: 28.7s
386:	learn: 0.2117681	total: 1m 37s	remaining: 28.5s
387:	learn: 0.2116849	total: 1m 37s	remaining: 28.2s
388:	learn: 0.2116566	total: 1m 37s	remaining: 28s
389:	learn: 0.2116192	total: 1m 38s	remaining: 27.7s
390:	learn: 0.2115936	total: 1m 38s	remaining: 27.5s
391:	learn: 0.2104614	total: 1m 38s	remaining: 27.2s
392:	learn: 0.2103556	total: 1m 39s	remaining: 27s
393:	learn: 0.2103208	total: 1m 39s	remaining: 26.7s
394:	learn: 0.2102312	total: 1m 39s	remaining: 26.5s
395:	learn: 0.2102034	total: 1m 39s	remaining: 26.2s
396:	learn: 0.2101479	total: 1m 40s	remaining: 25.9s
397:	learn: 0.2100996	total: 1m 40s	remaining: 25.7s
398:	learn: 0.2100633	total: 1m 40s	remaining: 25.4s
399:	learn: 0.2099733	total: 1m 40s	remaining: 25.2s
400:	learn: 0.2099234	total: 1m 41s	remaining: 24.9s
401:	learn: 0.2098636	total: 1m 41s	remaining: 24.7s
402:	learn: 0.2097967	total: 1m 41s	remaining: 24.4s
403:	learn: 0.2097169	total: 1m 41s	remaining: 24.2s
404:	learn: 0.2096696	total: 1m 42s	remaining: 24s
405:	learn: 0.2096138	total: 1m 42s	remaining: 23.7s
406:	learn: 0.2095518	total: 1m 42s	remaining: 23.5s
407:	learn: 0.2095158	total: 1m 42s	remaining: 23.2s
408:	learn: 0.2094400	total: 1m 43s	remaining: 22.9s
409:	learn: 0.2093948	total: 1m 43s	remaining: 22.7s
410:	learn: 0.2093786	total: 1m 43s	remaining: 22.4s
411:	learn: 0.2092846	total: 1m 43s	remaining: 22.2s
412:	learn: 0.2091881	total: 1m 44s	remaining: 21.9s
413:	learn: 0.2091429	total: 1m 44s	remaining: 21.7s
414:	learn: 0.2090695	total: 1m 44s	remaining: 21.4s
415:	learn: 0.2089291	total: 1m 45s	remaining: 21.2s
416:	learn: 0.2089027	total: 1m 45s	remaining: 21s
417:	learn: 0.2088531	total: 1m 45s	remaining: 20.7s
418:	learn: 0.2088398	total: 1m 45s	remaining: 20.4s
419:	learn: 0.2087712	total: 1m 46s	remaining: 20.2s
420:	learn: 0.2087185	total: 1m 46s	remaining: 20s
421:	learn: 0.2086776	total: 1m 46s	remaining: 19.7s
422:	learn: 0.2086552	total: 1m 46s	remaining: 19.5s
423:	learn: 0.2086102	total: 1m 47s	remaining: 19.2s
424:	learn: 0.2085327	total: 1m 47s	remaining: 19s
425:	learn: 0.2084967	total: 1m 47s	remaining: 18.7s
426:	learn: 0.2083996	total: 1m 47s	remaining: 18.5s
427:	learn: 0.2083760	total: 1m 48s	remaining: 18.2s

428:	learn: 0.2082813	total: 1m 48s	remaining: 18s
429:	learn: 0.2082150	total: 1m 48s	remaining: 17.7s
430:	learn: 0.2081999	total: 1m 49s	remaining: 17.5s
431:	learn: 0.2081779	total: 1m 49s	remaining: 17.2s
432:	learn: 0.2081572	total: 1m 49s	remaining: 16.9s
433:	learn: 0.2080499	total: 1m 49s	remaining: 16.7s
434:	learn: 0.2080337	total: 1m 49s	remaining: 16.4s
435:	learn: 0.2079242	total: 1m 50s	remaining: 16.2s
436:	learn: 0.2078838	total: 1m 50s	remaining: 15.9s
437:	learn: 0.2076101	total: 1m 50s	remaining: 15.7s
438:	learn: 0.2075901	total: 1m 50s	remaining: 15.4s
439:	learn: 0.2075025	total: 1m 51s	remaining: 15.1s
440:	learn: 0.2074368	total: 1m 51s	remaining: 14.9s
441:	learn: 0.2073958	total: 1m 51s	remaining: 14.6s
442:	learn: 0.2073223	total: 1m 51s	remaining: 14.4s
443:	learn: 0.2072309	total: 1m 51s	remaining: 14.1s
444:	learn: 0.2071905	total: 1m 52s	remaining: 13.9s
445:	learn: 0.2071664	total: 1m 52s	remaining: 13.6s
446:	learn: 0.2070943	total: 1m 52s	remaining: 13.4s
447:	learn: 0.2070640	total: 1m 53s	remaining: 13.1s
448:	learn: 0.2070076	total: 1m 53s	remaining: 12.9s
449:	learn: 0.2069600	total: 1m 53s	remaining: 12.6s
450:	learn: 0.2068889	total: 1m 53s	remaining: 12.4s
451:	learn: 0.2068150	total: 1m 54s	remaining: 12.1s
452:	learn: 0.2067759	total: 1m 54s	remaining: 11.9s
453:	learn: 0.2067476	total: 1m 54s	remaining: 11.6s
454:	learn: 0.2066439	total: 1m 54s	remaining: 11.4s
455:	learn: 0.2066368	total: 1m 55s	remaining: 11.1s
456:	learn: 0.2065680	total: 1m 55s	remaining: 10.9s
457:	learn: 0.2065210	total: 1m 55s	remaining: 10.6s
458:	learn: 0.2064851	total: 1m 55s	remaining: 10.4s
459:	learn: 0.2064089	total: 1m 56s	remaining: 10.1s
460:	learn: 0.2063833	total: 1m 56s	remaining: 9.85s
461:	learn: 0.2062794	total: 1m 56s	remaining: 9.6s
462:	learn: 0.2062429	total: 1m 56s	remaining: 9.34s
463:	learn: 0.2061435	total: 1m 57s	remaining: 9.09s
464:	learn: 0.2060986	total: 1m 57s	remaining: 8.84s
465:	learn: 0.2060123	total: 1m 57s	remaining: 8.59s
466:	learn: 0.2059469	total: 1m 57s	remaining: 8.33s
467:	learn: 0.2058941	total: 1m 58s	remaining: 8.08s
468:	learn: 0.2058585	total: 1m 58s	remaining: 7.83s
469:	learn: 0.2057849	total: 1m 58s	remaining: 7.58s
470:	learn: 0.2057600	total: 1m 59s	remaining: 7.33s
471:	learn: 0.2057370	total: 1m 59s	remaining: 7.08s
472:	learn: 0.2057233	total: 1m 59s	remaining: 6.82s
473:	learn: 0.2056528	total: 1m 59s	remaining: 6.57s
474:	learn: 0.2056218	total: 2m	remaining: 6.32s
475:	learn: 0.2055583	total: 2m	remaining: 6.07s

476:	learn: 0.2055404	total: 2m	remaining: 5.81s
477:	learn: 0.2055006	total: 2m	remaining: 5.56s
478:	learn: 0.2054544	total: 2m 1s	remaining: 5.31s
479:	learn: 0.2054199	total: 2m 1s	remaining: 5.05s
480:	learn: 0.2053914	total: 2m 1s	remaining: 4.8s
481:	learn: 0.2053325	total: 2m 1s	remaining: 4.55s
482:	learn: 0.2052551	total: 2m 2s	remaining: 4.3s
483:	learn: 0.2052162	total: 2m 2s	remaining: 4.04s
484:	learn: 0.2051412	total: 2m 2s	remaining: 3.79s
485:	learn: 0.2051246	total: 2m 2s	remaining: 3.54s
486:	learn: 0.2050760	total: 2m 3s	remaining: 3.29s
487:	learn: 0.2050218	total: 2m 3s	remaining: 3.04s
488:	learn: 0.2049622	total: 2m 3s	remaining: 2.78s
489:	learn: 0.2048505	total: 2m 3s	remaining: 2.53s
490:	learn: 0.2048101	total: 2m 4s	remaining: 2.28s
491:	learn: 0.2047669	total: 2m 4s	remaining: 2.02s
492:	learn: 0.2047140	total: 2m 4s	remaining: 1.77s
493:	learn: 0.2046841	total: 2m 4s	remaining: 1.51s
494:	learn: 0.2045887	total: 2m 4s	remaining: 1.26s
495:	learn: 0.2045199	total: 2m 5s	remaining: 1.01s
496:	learn: 0.2044811	total: 2m 5s	remaining: 756ms
497:	learn: 0.2044547	total: 2m 5s	remaining: 504ms
498:	learn: 0.2043435	total: 2m 5s	remaining: 252ms
499:	learn: 0.2043006	total: 2m 5s	remaining: 0us

Learning rate set to 0.173965

0:	learn: 0.9721976	total: 190ms	remaining: 1m 34s
1:	learn: 0.8910675	total: 344ms	remaining: 1m 25s
2:	learn: 0.8316425	total: 535ms	remaining: 1m 28s
3:	learn: 0.7874819	total: 701ms	remaining: 1m 26s
4:	learn: 0.6833754	total: 907ms	remaining: 1m 29s
5:	learn: 0.6281102	total: 1.08s	remaining: 1m 29s
6:	learn: 0.5593230	total: 1.26s	remaining: 1m 29s
7:	learn: 0.5083393	total: 1.47s	remaining: 1m 30s
8:	learn: 0.4954499	total: 1.7s	remaining: 1m 32s
9:	learn: 0.4598265	total: 1.95s	remaining: 1m 35s
10:	learn: 0.4319711	total: 2.19s	remaining: 1m 37s
11:	learn: 0.4084138	total: 2.45s	remaining: 1m 39s
12:	learn: 0.3900182	total: 2.69s	remaining: 1m 40s
13:	learn: 0.3746389	total: 2.91s	remaining: 1m 41s
14:	learn: 0.3574881	total: 3.18s	remaining: 1m 42s
15:	learn: 0.3527603	total: 3.44s	remaining: 1m 43s
16:	learn: 0.3369827	total: 3.74s	remaining: 1m 46s
17:	learn: 0.3237437	total: 4.02s	remaining: 1m 47s
18:	learn: 0.3125019	total: 4.27s	remaining: 1m 48s
19:	learn: 0.3033957	total: 4.55s	remaining: 1m 49s
20:	learn: 0.3015594	total: 4.82s	remaining: 1m 49s
21:	learn: 0.2997831	total: 5.08s	remaining: 1m 50s
22:	learn: 0.2927815	total: 5.37s	remaining: 1m 51s

23:	learn: 0.2918168	total: 5.62s	remaining: 1m 51s
24:	learn: 0.2855207	total: 5.89s	remaining: 1m 51s
25:	learn: 0.2843489	total: 6.14s	remaining: 1m 51s
26:	learn: 0.2833560	total: 6.39s	remaining: 1m 52s
27:	learn: 0.2814888	total: 6.68s	remaining: 1m 52s
28:	learn: 0.2769901	total: 6.95s	remaining: 1m 52s
29:	learn: 0.2732478	total: 7.24s	remaining: 1m 53s
30:	learn: 0.2726245	total: 7.52s	remaining: 1m 53s
31:	learn: 0.2690628	total: 7.78s	remaining: 1m 53s
32:	learn: 0.2685351	total: 8.04s	remaining: 1m 53s
33:	learn: 0.2677637	total: 8.32s	remaining: 1m 54s
34:	learn: 0.2672095	total: 8.6s	remaining: 1m 54s
35:	learn: 0.2643350	total: 8.89s	remaining: 1m 54s
36:	learn: 0.2640121	total: 9.18s	remaining: 1m 54s
37:	learn: 0.2608786	total: 9.47s	remaining: 1m 55s
38:	learn: 0.2592737	total: 9.73s	remaining: 1m 55s
39:	learn: 0.2588943	total: 9.99s	remaining: 1m 54s
40:	learn: 0.2580411	total: 10.3s	remaining: 1m 55s
41:	learn: 0.2575510	total: 10.5s	remaining: 1m 55s
42:	learn: 0.2572755	total: 10.8s	remaining: 1m 55s
43:	learn: 0.2555185	total: 11.2s	remaining: 1m 55s
44:	learn: 0.2549704	total: 11.5s	remaining: 1m 55s
45:	learn: 0.2548482	total: 11.7s	remaining: 1m 55s
46:	learn: 0.2544720	total: 12s	remaining: 1m 55s
47:	learn: 0.2537873	total: 12.3s	remaining: 1m 56s
48:	learn: 0.2536520	total: 12.6s	remaining: 1m 55s
49:	learn: 0.2532612	total: 12.8s	remaining: 1m 55s
50:	learn: 0.2523210	total: 13.1s	remaining: 1m 55s
51:	learn: 0.2521401	total: 13.4s	remaining: 1m 55s
52:	learn: 0.2516441	total: 13.7s	remaining: 1m 55s
53:	learn: 0.2489486	total: 13.9s	remaining: 1m 55s
54:	learn: 0.2487055	total: 14.1s	remaining: 1m 54s
55:	learn: 0.2481326	total: 14.4s	remaining: 1m 54s
56:	learn: 0.2480875	total: 14.6s	remaining: 1m 53s
57:	learn: 0.2479931	total: 14.9s	remaining: 1m 53s
58:	learn: 0.2476801	total: 15.1s	remaining: 1m 53s
59:	learn: 0.2473136	total: 15.4s	remaining: 1m 52s
60:	learn: 0.2471641	total: 15.6s	remaining: 1m 52s
61:	learn: 0.2470353	total: 15.8s	remaining: 1m 51s
62:	learn: 0.2468763	total: 16s	remaining: 1m 51s
63:	learn: 0.2467515	total: 16.3s	remaining: 1m 50s
64:	learn: 0.2465924	total: 16.5s	remaining: 1m 50s
65:	learn: 0.2465128	total: 16.7s	remaining: 1m 49s
66:	learn: 0.2447805	total: 17s	remaining: 1m 49s
67:	learn: 0.2447648	total: 17.2s	remaining: 1m 49s
68:	learn: 0.2447202	total: 17.4s	remaining: 1m 48s
69:	learn: 0.2445037	total: 17.7s	remaining: 1m 48s
70:	learn: 0.2442746	total: 17.9s	remaining: 1m 48s

71:	learn: 0.2440755	total: 18.2s	remaining: 1m 48s
72:	learn: 0.2428656	total: 18.4s	remaining: 1m 47s
73:	learn: 0.2424719	total: 18.7s	remaining: 1m 47s
74:	learn: 0.2424251	total: 18.9s	remaining: 1m 47s
75:	learn: 0.2423044	total: 19.2s	remaining: 1m 46s
76:	learn: 0.2421623	total: 19.4s	remaining: 1m 46s
77:	learn: 0.2418259	total: 19.7s	remaining: 1m 46s
78:	learn: 0.2417500	total: 20s	remaining: 1m 46s
79:	learn: 0.2414199	total: 20.3s	remaining: 1m 46s
80:	learn: 0.2411832	total: 20.6s	remaining: 1m 46s
81:	learn: 0.2400334	total: 20.9s	remaining: 1m 46s
82:	learn: 0.2392992	total: 21.2s	remaining: 1m 46s
83:	learn: 0.2392102	total: 21.5s	remaining: 1m 46s
84:	learn: 0.2390202	total: 21.8s	remaining: 1m 46s
85:	learn: 0.2388760	total: 22.1s	remaining: 1m 46s
86:	learn: 0.2387378	total: 22.3s	remaining: 1m 45s
87:	learn: 0.2387030	total: 22.6s	remaining: 1m 45s
88:	learn: 0.2386764	total: 22.8s	remaining: 1m 45s
89:	learn: 0.2385155	total: 23.1s	remaining: 1m 45s
90:	learn: 0.2378345	total: 23.3s	remaining: 1m 44s
91:	learn: 0.2378167	total: 23.6s	remaining: 1m 44s
92:	learn: 0.2377280	total: 23.8s	remaining: 1m 44s
93:	learn: 0.2375697	total: 24.1s	remaining: 1m 44s
94:	learn: 0.2371193	total: 24.4s	remaining: 1m 44s
95:	learn: 0.2369746	total: 24.7s	remaining: 1m 43s
96:	learn: 0.2360061	total: 24.9s	remaining: 1m 43s
97:	learn: 0.2356108	total: 25.1s	remaining: 1m 43s
98:	learn: 0.2353336	total: 25.3s	remaining: 1m 42s
99:	learn: 0.2352791	total: 25.6s	remaining: 1m 42s
100:	learn: 0.2351392	total: 25.8s	remaining: 1m 42s
101:	learn: 0.2350359	total: 26.1s	remaining: 1m 41s
102:	learn: 0.2347575	total: 26.4s	remaining: 1m 41s
103:	learn: 0.2346805	total: 26.7s	remaining: 1m 41s
104:	learn: 0.2344550	total: 26.9s	remaining: 1m 41s
105:	learn: 0.2343884	total: 27.2s	remaining: 1m 41s
106:	learn: 0.2342182	total: 27.4s	remaining: 1m 40s
107:	learn: 0.2341269	total: 27.7s	remaining: 1m 40s
108:	learn: 0.2338308	total: 28s	remaining: 1m 40s
109:	learn: 0.2336560	total: 28.2s	remaining: 1m 40s
110:	learn: 0.2333631	total: 28.5s	remaining: 1m 39s
111:	learn: 0.2332944	total: 28.8s	remaining: 1m 39s
112:	learn: 0.2331379	total: 29s	remaining: 1m 39s
113:	learn: 0.2328910	total: 29.3s	remaining: 1m 39s
114:	learn: 0.2327531	total: 29.6s	remaining: 1m 38s
115:	learn: 0.2325964	total: 29.8s	remaining: 1m 38s
116:	learn: 0.2324497	total: 30.1s	remaining: 1m 38s
117:	learn: 0.2323087	total: 30.3s	remaining: 1m 38s
118:	learn: 0.2321350	total: 30.6s	remaining: 1m 37s

119:	learn: 0.2320547	total: 30.8s	remaining: 1m 37s
120:	learn: 0.2307580	total: 31.1s	remaining: 1m 37s
121:	learn: 0.2306850	total: 31.3s	remaining: 1m 37s
122:	learn: 0.2306279	total: 31.5s	remaining: 1m 36s
123:	learn: 0.2305803	total: 31.8s	remaining: 1m 36s
124:	learn: 0.2304206	total: 32s	remaining: 1m 35s
125:	learn: 0.2302979	total: 32.2s	remaining: 1m 35s
126:	learn: 0.2302522	total: 32.4s	remaining: 1m 35s
127:	learn: 0.2301178	total: 32.7s	remaining: 1m 34s
128:	learn: 0.2300601	total: 32.9s	remaining: 1m 34s
129:	learn: 0.2299651	total: 33.1s	remaining: 1m 34s
130:	learn: 0.2298787	total: 33.4s	remaining: 1m 33s
131:	learn: 0.2296314	total: 33.6s	remaining: 1m 33s
132:	learn: 0.2295270	total: 33.9s	remaining: 1m 33s
133:	learn: 0.2294081	total: 34.2s	remaining: 1m 33s
134:	learn: 0.2293466	total: 34.4s	remaining: 1m 32s
135:	learn: 0.2292842	total: 34.6s	remaining: 1m 32s
136:	learn: 0.2290639	total: 34.9s	remaining: 1m 32s
137:	learn: 0.2290124	total: 35.1s	remaining: 1m 32s
138:	learn: 0.2289590	total: 35.4s	remaining: 1m 31s
139:	learn: 0.2288170	total: 35.7s	remaining: 1m 31s
140:	learn: 0.2286358	total: 36s	remaining: 1m 31s
141:	learn: 0.2285827	total: 36.3s	remaining: 1m 31s
142:	learn: 0.2285091	total: 36.5s	remaining: 1m 31s
143:	learn: 0.2284487	total: 36.8s	remaining: 1m 31s
144:	learn: 0.2282708	total: 37.1s	remaining: 1m 30s
145:	learn: 0.2282376	total: 37.4s	remaining: 1m 30s
146:	learn: 0.2281250	total: 37.6s	remaining: 1m 30s
147:	learn: 0.2280601	total: 37.9s	remaining: 1m 30s
148:	learn: 0.2279043	total: 38.1s	remaining: 1m 29s
149:	learn: 0.2277434	total: 38.4s	remaining: 1m 29s
150:	learn: 0.2276222	total: 38.6s	remaining: 1m 29s
151:	learn: 0.2275999	total: 38.9s	remaining: 1m 29s
152:	learn: 0.2275081	total: 39.2s	remaining: 1m 28s
153:	learn: 0.2274798	total: 39.4s	remaining: 1m 28s
154:	learn: 0.2273892	total: 39.7s	remaining: 1m 28s
155:	learn: 0.2273542	total: 39.9s	remaining: 1m 28s
156:	learn: 0.2271012	total: 40.2s	remaining: 1m 27s
157:	learn: 0.2269813	total: 40.4s	remaining: 1m 27s
158:	learn: 0.2269656	total: 40.6s	remaining: 1m 27s
159:	learn: 0.2268947	total: 40.9s	remaining: 1m 26s
160:	learn: 0.2268635	total: 41.2s	remaining: 1m 26s
161:	learn: 0.2268318	total: 41.4s	remaining: 1m 26s
162:	learn: 0.2267352	total: 41.7s	remaining: 1m 26s
163:	learn: 0.2266478	total: 41.9s	remaining: 1m 25s
164:	learn: 0.2265642	total: 42.2s	remaining: 1m 25s
165:	learn: 0.2264666	total: 42.5s	remaining: 1m 25s
166:	learn: 0.2264080	total: 42.7s	remaining: 1m 25s

167:	learn: 0.2262649	total: 43s	remaining: 1m 24s
168:	learn: 0.2261504	total: 43.2s	remaining: 1m 24s
169:	learn: 0.2260336	total: 43.5s	remaining: 1m 24s
170:	learn: 0.2259871	total: 43.8s	remaining: 1m 24s
171:	learn: 0.2257947	total: 44.1s	remaining: 1m 24s
172:	learn: 0.2256583	total: 44.4s	remaining: 1m 23s
173:	learn: 0.2256111	total: 44.6s	remaining: 1m 23s
174:	learn: 0.2255288	total: 44.9s	remaining: 1m 23s
175:	learn: 0.2253560	total: 45.1s	remaining: 1m 23s
176:	learn: 0.2253158	total: 45.4s	remaining: 1m 22s
177:	learn: 0.2252881	total: 45.6s	remaining: 1m 22s
178:	learn: 0.2252028	total: 45.9s	remaining: 1m 22s
179:	learn: 0.2251452	total: 46.2s	remaining: 1m 22s
180:	learn: 0.2250109	total: 46.4s	remaining: 1m 21s
181:	learn: 0.2248994	total: 46.7s	remaining: 1m 21s
182:	learn: 0.2248327	total: 46.9s	remaining: 1m 21s
183:	learn: 0.2247368	total: 47.2s	remaining: 1m 21s
184:	learn: 0.2239261	total: 47.4s	remaining: 1m 20s
185:	learn: 0.2238576	total: 47.7s	remaining: 1m 20s
186:	learn: 0.2237719	total: 47.9s	remaining: 1m 20s
187:	learn: 0.2237570	total: 48.1s	remaining: 1m 19s
188:	learn: 0.2237311	total: 48.4s	remaining: 1m 19s
189:	learn: 0.2236968	total: 48.6s	remaining: 1m 19s
190:	learn: 0.2236845	total: 48.8s	remaining: 1m 18s
191:	learn: 0.2236184	total: 49s	remaining: 1m 18s
192:	learn: 0.2234062	total: 49.3s	remaining: 1m 18s
193:	learn: 0.2233133	total: 49.5s	remaining: 1m 18s
194:	learn: 0.2231069	total: 49.8s	remaining: 1m 17s
195:	learn: 0.2230402	total: 50s	remaining: 1m 17s
196:	learn: 0.2230017	total: 50.2s	remaining: 1m 17s
197:	learn: 0.2229039	total: 50.4s	remaining: 1m 16s
198:	learn: 0.2227213	total: 50.7s	remaining: 1m 16s
199:	learn: 0.2226053	total: 50.9s	remaining: 1m 16s
200:	learn: 0.2224533	total: 51.2s	remaining: 1m 16s
201:	learn: 0.2223882	total: 51.4s	remaining: 1m 15s
202:	learn: 0.2223534	total: 51.7s	remaining: 1m 15s
203:	learn: 0.2223038	total: 52s	remaining: 1m 15s
204:	learn: 0.2222142	total: 52.3s	remaining: 1m 15s
205:	learn: 0.2221690	total: 52.5s	remaining: 1m 14s
206:	learn: 0.2221457	total: 52.8s	remaining: 1m 14s
207:	learn: 0.2221270	total: 53s	remaining: 1m 14s
208:	learn: 0.2220505	total: 53.3s	remaining: 1m 14s
209:	learn: 0.2220289	total: 53.5s	remaining: 1m 13s
210:	learn: 0.2219347	total: 53.7s	remaining: 1m 13s
211:	learn: 0.2219030	total: 54s	remaining: 1m 13s
212:	learn: 0.2218394	total: 54.3s	remaining: 1m 13s
213:	learn: 0.2218267	total: 54.5s	remaining: 1m 12s
214:	learn: 0.2207542	total: 54.8s	remaining: 1m 12s

215:	learn: 0.2206244	total: 55.1s	remaining: 1m 12s
216:	learn: 0.2206010	total: 55.3s	remaining: 1m 12s
217:	learn: 0.2205410	total: 55.6s	remaining: 1m 11s
218:	learn: 0.2204920	total: 55.9s	remaining: 1m 11s
219:	learn: 0.2204637	total: 56.1s	remaining: 1m 11s
220:	learn: 0.2204255	total: 56.3s	remaining: 1m 11s
221:	learn: 0.2203451	total: 56.6s	remaining: 1m 10s
222:	learn: 0.2202804	total: 56.9s	remaining: 1m 10s
223:	learn: 0.2201936	total: 57.1s	remaining: 1m 10s
224:	learn: 0.2201324	total: 57.4s	remaining: 1m 10s
225:	learn: 0.2201172	total: 57.6s	remaining: 1m 9s
226:	learn: 0.2200488	total: 57.9s	remaining: 1m 9s
227:	learn: 0.2199976	total: 58.2s	remaining: 1m 9s
228:	learn: 0.2199473	total: 58.5s	remaining: 1m 9s
229:	learn: 0.2199224	total: 58.7s	remaining: 1m 8s
230:	learn: 0.2198818	total: 58.9s	remaining: 1m 8s
231:	learn: 0.2198055	total: 59.2s	remaining: 1m 8s
232:	learn: 0.2197547	total: 59.5s	remaining: 1m 8s
233:	learn: 0.2196920	total: 59.7s	remaining: 1m 7s
234:	learn: 0.2196555	total: 60s	remaining: 1m 7s
235:	learn: 0.2195934	total: 1m	remaining: 1m 7s
236:	learn: 0.2195056	total: 1m	remaining: 1m 7s
237:	learn: 0.2194645	total: 1m	remaining: 1m 6s
238:	learn: 0.2194540	total: 1m 1s	remaining: 1m 6s
239:	learn: 0.2193533	total: 1m 1s	remaining: 1m 6s
240:	learn: 0.2193289	total: 1m 1s	remaining: 1m 6s
241:	learn: 0.2192152	total: 1m 1s	remaining: 1m 5s
242:	learn: 0.2191576	total: 1m 1s	remaining: 1m 5s
243:	learn: 0.2191027	total: 1m 1s	remaining: 1m 5s
244:	learn: 0.2190636	total: 1m 2s	remaining: 1m 4s
245:	learn: 0.2189328	total: 1m 2s	remaining: 1m 4s
246:	learn: 0.2189084	total: 1m 2s	remaining: 1m 4s
247:	learn: 0.2188834	total: 1m 2s	remaining: 1m 3s
248:	learn: 0.2188566	total: 1m 2s	remaining: 1m 3s
249:	learn: 0.2188224	total: 1m 3s	remaining: 1m 3s
250:	learn: 0.2187578	total: 1m 3s	remaining: 1m 2s
251:	learn: 0.2187359	total: 1m 3s	remaining: 1m 2s
252:	learn: 0.2186381	total: 1m 3s	remaining: 1m 2s
253:	learn: 0.2184047	total: 1m 4s	remaining: 1m 2s
254:	learn: 0.2182971	total: 1m 4s	remaining: 1m 1s
255:	learn: 0.2181937	total: 1m 4s	remaining: 1m 1s
256:	learn: 0.2181586	total: 1m 4s	remaining: 1m 1s
257:	learn: 0.2181267	total: 1m 5s	remaining: 1m 1s
258:	learn: 0.2176824	total: 1m 5s	remaining: 1m
259:	learn: 0.2176575	total: 1m 5s	remaining: 1m
260:	learn: 0.2176010	total: 1m 5s	remaining: 1m
261:	learn: 0.2175660	total: 1m 6s	remaining: 60s
262:	learn: 0.2174864	total: 1m 6s	remaining: 59.7s

263:	learn: 0.2173829	total: 1m 6s	remaining: 59.5s
264:	learn: 0.2173331	total: 1m 6s	remaining: 59.2s
265:	learn: 0.2173006	total: 1m 7s	remaining: 59s
266:	learn: 0.2172703	total: 1m 7s	remaining: 58.7s
267:	learn: 0.2171590	total: 1m 7s	remaining: 58.5s
268:	learn: 0.2171172	total: 1m 7s	remaining: 58.2s
269:	learn: 0.2167750	total: 1m 8s	remaining: 58s
270:	learn: 0.2166704	total: 1m 8s	remaining: 57.8s
271:	learn: 0.2165849	total: 1m 8s	remaining: 57.6s
272:	learn: 0.2165160	total: 1m 8s	remaining: 57.3s
273:	learn: 0.2164698	total: 1m 9s	remaining: 57.1s
274:	learn: 0.2164157	total: 1m 9s	remaining: 56.9s
275:	learn: 0.2163929	total: 1m 9s	remaining: 56.6s
276:	learn: 0.2163195	total: 1m 10s	remaining: 56.4s
277:	learn: 0.2162797	total: 1m 10s	remaining: 56.1s
278:	learn: 0.2162429	total: 1m 10s	remaining: 55.9s
279:	learn: 0.2162005	total: 1m 10s	remaining: 55.6s
280:	learn: 0.2161563	total: 1m 11s	remaining: 55.4s
281:	learn: 0.2161062	total: 1m 11s	remaining: 55.1s
282:	learn: 0.2159554	total: 1m 11s	remaining: 54.9s
283:	learn: 0.2158859	total: 1m 11s	remaining: 54.6s
284:	learn: 0.2157769	total: 1m 12s	remaining: 54.4s
285:	learn: 0.2156554	total: 1m 12s	remaining: 54.1s
286:	learn: 0.2155129	total: 1m 12s	remaining: 53.9s
287:	learn: 0.2154957	total: 1m 12s	remaining: 53.6s
288:	learn: 0.2154067	total: 1m 13s	remaining: 53.3s
289:	learn: 0.2152894	total: 1m 13s	remaining: 53.1s
290:	learn: 0.2152182	total: 1m 13s	remaining: 52.8s
291:	learn: 0.2151463	total: 1m 13s	remaining: 52.6s
292:	learn: 0.2149776	total: 1m 14s	remaining: 52.3s
293:	learn: 0.2148755	total: 1m 14s	remaining: 52.1s
294:	learn: 0.2148397	total: 1m 14s	remaining: 51.9s
295:	learn: 0.2147518	total: 1m 14s	remaining: 51.6s
296:	learn: 0.2146435	total: 1m 15s	remaining: 51.3s
297:	learn: 0.2145725	total: 1m 15s	remaining: 51.1s
298:	learn: 0.2145570	total: 1m 15s	remaining: 50.8s
299:	learn: 0.2144853	total: 1m 15s	remaining: 50.6s
300:	learn: 0.2144673	total: 1m 16s	remaining: 50.3s
301:	learn: 0.2144188	total: 1m 16s	remaining: 50.1s
302:	learn: 0.2143860	total: 1m 16s	remaining: 49.8s
303:	learn: 0.2141565	total: 1m 16s	remaining: 49.6s
304:	learn: 0.2140832	total: 1m 17s	remaining: 49.4s
305:	learn: 0.2140247	total: 1m 17s	remaining: 49.1s
306:	learn: 0.2139862	total: 1m 17s	remaining: 48.9s
307:	learn: 0.2139222	total: 1m 18s	remaining: 48.6s
308:	learn: 0.2138855	total: 1m 18s	remaining: 48.4s
309:	learn: 0.2138377	total: 1m 18s	remaining: 48.1s
310:	learn: 0.2137463	total: 1m 18s	remaining: 47.9s

311:	learn: 0.2136748	total: 1m 18s	remaining: 47.6s
312:	learn: 0.2136202	total: 1m 19s	remaining: 47.3s
313:	learn: 0.2135419	total: 1m 19s	remaining: 47.1s
314:	learn: 0.2134938	total: 1m 19s	remaining: 46.8s
315:	learn: 0.2134347	total: 1m 19s	remaining: 46.5s
316:	learn: 0.2133220	total: 1m 20s	remaining: 46.3s
317:	learn: 0.2133069	total: 1m 20s	remaining: 46s
318:	learn: 0.2132341	total: 1m 20s	remaining: 45.7s
319:	learn: 0.2131523	total: 1m 20s	remaining: 45.5s
320:	learn: 0.2130243	total: 1m 21s	remaining: 45.2s
321:	learn: 0.2129852	total: 1m 21s	remaining: 45s
322:	learn: 0.2129150	total: 1m 21s	remaining: 44.7s
323:	learn: 0.2128301	total: 1m 21s	remaining: 44.4s
324:	learn: 0.2127527	total: 1m 21s	remaining: 44.1s
325:	learn: 0.2126618	total: 1m 22s	remaining: 43.8s
326:	learn: 0.2126058	total: 1m 22s	remaining: 43.5s
327:	learn: 0.2125304	total: 1m 22s	remaining: 43.2s
328:	learn: 0.2124677	total: 1m 22s	remaining: 42.9s
329:	learn: 0.2124364	total: 1m 22s	remaining: 42.6s
330:	learn: 0.2123633	total: 1m 22s	remaining: 42.3s
331:	learn: 0.2123336	total: 1m 23s	remaining: 42.1s
332:	learn: 0.2122685	total: 1m 23s	remaining: 41.8s
333:	learn: 0.2122366	total: 1m 23s	remaining: 41.5s
334:	learn: 0.2121747	total: 1m 23s	remaining: 41.2s
335:	learn: 0.2120285	total: 1m 23s	remaining: 41s
336:	learn: 0.2118832	total: 1m 24s	remaining: 40.7s
337:	learn: 0.2118303	total: 1m 24s	remaining: 40.5s
338:	learn: 0.2117984	total: 1m 24s	remaining: 40.2s
339:	learn: 0.2117034	total: 1m 25s	remaining: 40s
340:	learn: 0.2116232	total: 1m 25s	remaining: 39.8s
341:	learn: 0.2115489	total: 1m 25s	remaining: 39.5s
342:	learn: 0.2114373	total: 1m 25s	remaining: 39.3s
343:	learn: 0.2113942	total: 1m 26s	remaining: 39s
344:	learn: 0.2113309	total: 1m 26s	remaining: 38.8s
345:	learn: 0.2112814	total: 1m 26s	remaining: 38.5s
346:	learn: 0.2112343	total: 1m 26s	remaining: 38.3s
347:	learn: 0.2111663	total: 1m 27s	remaining: 38s
348:	learn: 0.2111305	total: 1m 27s	remaining: 37.8s
349:	learn: 0.2110717	total: 1m 27s	remaining: 37.5s
350:	learn: 0.2110464	total: 1m 27s	remaining: 37.3s
351:	learn: 0.2109607	total: 1m 28s	remaining: 37.1s
352:	learn: 0.2107976	total: 1m 28s	remaining: 36.8s
353:	learn: 0.2107379	total: 1m 28s	remaining: 36.6s
354:	learn: 0.2107029	total: 1m 29s	remaining: 36.4s
355:	learn: 0.2106437	total: 1m 29s	remaining: 36.1s
356:	learn: 0.2105967	total: 1m 29s	remaining: 35.9s
357:	learn: 0.2105520	total: 1m 29s	remaining: 35.6s
358:	learn: 0.2104642	total: 1m 30s	remaining: 35.4s

359:	learn: 0.2104481	total: 1m 30s	remaining: 35.1s
360:	learn: 0.2103587	total: 1m 30s	remaining: 34.9s
361:	learn: 0.2102548	total: 1m 30s	remaining: 34.7s
362:	learn: 0.2102201	total: 1m 31s	remaining: 34.4s
363:	learn: 0.2101481	total: 1m 31s	remaining: 34.2s
364:	learn: 0.2100807	total: 1m 31s	remaining: 33.9s
365:	learn: 0.2099854	total: 1m 31s	remaining: 33.7s
366:	learn: 0.2099290	total: 1m 32s	remaining: 33.4s
367:	learn: 0.2098886	total: 1m 32s	remaining: 33.2s
368:	learn: 0.2098423	total: 1m 32s	remaining: 32.9s
369:	learn: 0.2098029	total: 1m 32s	remaining: 32.7s
370:	learn: 0.2096626	total: 1m 33s	remaining: 32.4s
371:	learn: 0.2096363	total: 1m 33s	remaining: 32.2s
372:	learn: 0.2095502	total: 1m 33s	remaining: 31.9s
373:	learn: 0.2094753	total: 1m 33s	remaining: 31.7s
374:	learn: 0.2094293	total: 1m 34s	remaining: 31.4s
375:	learn: 0.2094177	total: 1m 34s	remaining: 31.1s
376:	learn: 0.2093520	total: 1m 34s	remaining: 30.9s
377:	learn: 0.2093288	total: 1m 34s	remaining: 30.6s
378:	learn: 0.2092946	total: 1m 35s	remaining: 30.4s
379:	learn: 0.2092570	total: 1m 35s	remaining: 30.1s
380:	learn: 0.2091937	total: 1m 35s	remaining: 29.9s
381:	learn: 0.2091583	total: 1m 35s	remaining: 29.6s
382:	learn: 0.2090649	total: 1m 36s	remaining: 29.3s
383:	learn: 0.2089948	total: 1m 36s	remaining: 29.1s
384:	learn: 0.2089174	total: 1m 36s	remaining: 28.8s
385:	learn: 0.2088770	total: 1m 36s	remaining: 28.6s
386:	learn: 0.2088481	total: 1m 36s	remaining: 28.3s
387:	learn: 0.2088283	total: 1m 37s	remaining: 28.1s
388:	learn: 0.2087807	total: 1m 37s	remaining: 27.8s
389:	learn: 0.2087412	total: 1m 37s	remaining: 27.6s
390:	learn: 0.2086006	total: 1m 37s	remaining: 27.3s
391:	learn: 0.2084786	total: 1m 38s	remaining: 27s
392:	learn: 0.2084500	total: 1m 38s	remaining: 26.8s
393:	learn: 0.2083939	total: 1m 38s	remaining: 26.5s
394:	learn: 0.2083327	total: 1m 38s	remaining: 26.3s
395:	learn: 0.2082588	total: 1m 39s	remaining: 26s
396:	learn: 0.2082132	total: 1m 39s	remaining: 25.8s
397:	learn: 0.2081845	total: 1m 39s	remaining: 25.5s
398:	learn: 0.2081732	total: 1m 39s	remaining: 25.3s
399:	learn: 0.2081592	total: 1m 40s	remaining: 25.1s
400:	learn: 0.2081188	total: 1m 40s	remaining: 24.8s
401:	learn: 0.2080413	total: 1m 40s	remaining: 24.5s
402:	learn: 0.2080141	total: 1m 40s	remaining: 24.3s
403:	learn: 0.2080017	total: 1m 41s	remaining: 24s
404:	learn: 0.2079753	total: 1m 41s	remaining: 23.7s
405:	learn: 0.2079261	total: 1m 41s	remaining: 23.5s
406:	learn: 0.2078585	total: 1m 41s	remaining: 23.2s

407:	learn: 0.2078479	total: 1m 41s	remaining: 22.9s
408:	learn: 0.2077143	total: 1m 41s	remaining: 22.7s
409:	learn: 0.2070310	total: 1m 42s	remaining: 22.4s
410:	learn: 0.2069114	total: 1m 42s	remaining: 22.2s
411:	learn: 0.2068336	total: 1m 42s	remaining: 21.9s
412:	learn: 0.2067658	total: 1m 42s	remaining: 21.7s
413:	learn: 0.2066913	total: 1m 43s	remaining: 21.4s
414:	learn: 0.2066402	total: 1m 43s	remaining: 21.2s
415:	learn: 0.2065218	total: 1m 43s	remaining: 20.9s
416:	learn: 0.2064099	total: 1m 43s	remaining: 20.7s
417:	learn: 0.2063661	total: 1m 44s	remaining: 20.4s
418:	learn: 0.2063274	total: 1m 44s	remaining: 20.2s
419:	learn: 0.2063188	total: 1m 44s	remaining: 19.9s
420:	learn: 0.2062037	total: 1m 44s	remaining: 19.7s
421:	learn: 0.2060554	total: 1m 45s	remaining: 19.4s
422:	learn: 0.2060283	total: 1m 45s	remaining: 19.2s
423:	learn: 0.2060065	total: 1m 45s	remaining: 19s
424:	learn: 0.2059857	total: 1m 46s	remaining: 18.7s
425:	learn: 0.2059171	total: 1m 46s	remaining: 18.5s
426:	learn: 0.2058846	total: 1m 46s	remaining: 18.2s
427:	learn: 0.2057953	total: 1m 46s	remaining: 18s
428:	learn: 0.2056876	total: 1m 47s	remaining: 17.7s
429:	learn: 0.2055933	total: 1m 47s	remaining: 17.5s
430:	learn: 0.2054506	total: 1m 47s	remaining: 17.2s
431:	learn: 0.2054288	total: 1m 47s	remaining: 17s
432:	learn: 0.2053607	total: 1m 48s	remaining: 16.7s
433:	learn: 0.2052413	total: 1m 48s	remaining: 16.5s
434:	learn: 0.2052124	total: 1m 48s	remaining: 16.2s
435:	learn: 0.2051583	total: 1m 48s	remaining: 16s
436:	learn: 0.2050949	total: 1m 49s	remaining: 15.7s
437:	learn: 0.2050040	total: 1m 49s	remaining: 15.5s
438:	learn: 0.2049477	total: 1m 49s	remaining: 15.2s
439:	learn: 0.2047608	total: 1m 49s	remaining: 15s
440:	learn: 0.2047382	total: 1m 50s	remaining: 14.7s
441:	learn: 0.2046856	total: 1m 50s	remaining: 14.5s
442:	learn: 0.2046364	total: 1m 50s	remaining: 14.2s
443:	learn: 0.2045503	total: 1m 50s	remaining: 14s
444:	learn: 0.2044775	total: 1m 51s	remaining: 13.7s
445:	learn: 0.2044245	total: 1m 51s	remaining: 13.5s
446:	learn: 0.2044068	total: 1m 51s	remaining: 13.3s
447:	learn: 0.2043756	total: 1m 52s	remaining: 13s
448:	learn: 0.2042281	total: 1m 52s	remaining: 12.8s
449:	learn: 0.2041998	total: 1m 52s	remaining: 12.5s
450:	learn: 0.2041406	total: 1m 52s	remaining: 12.3s
451:	learn: 0.2040491	total: 1m 53s	remaining: 12s
452:	learn: 0.2039591	total: 1m 53s	remaining: 11.8s
453:	learn: 0.2038919	total: 1m 53s	remaining: 11.5s
454:	learn: 0.2037613	total: 1m 53s	remaining: 11.2s

455:	learn: 0.2033939	total: 1m 53s	remaining: 11s
456:	learn: 0.2033190	total: 1m 54s	remaining: 10.7s
457:	learn: 0.2031939	total: 1m 54s	remaining: 10.5s
458:	learn: 0.2031264	total: 1m 54s	remaining: 10.2s
459:	learn: 0.2030520	total: 1m 55s	remaining: 10s
460:	learn: 0.2030361	total: 1m 55s	remaining: 9.75s
461:	learn: 0.2029574	total: 1m 55s	remaining: 9.5s
462:	learn: 0.2029377	total: 1m 55s	remaining: 9.25s
463:	learn: 0.2029161	total: 1m 56s	remaining: 9.01s
464:	learn: 0.2028465	total: 1m 56s	remaining: 8.76s
465:	learn: 0.2028254	total: 1m 56s	remaining: 8.51s
466:	learn: 0.2027970	total: 1m 56s	remaining: 8.26s
467:	learn: 0.2027143	total: 1m 57s	remaining: 8.01s
468:	learn: 0.2026744	total: 1m 57s	remaining: 7.76s
469:	learn: 0.2025919	total: 1m 57s	remaining: 7.51s
470:	learn: 0.2025711	total: 1m 57s	remaining: 7.26s
471:	learn: 0.2025478	total: 1m 58s	remaining: 7.01s
472:	learn: 0.2024716	total: 1m 58s	remaining: 6.76s
473:	learn: 0.2024528	total: 1m 58s	remaining: 6.51s
474:	learn: 0.2023957	total: 1m 58s	remaining: 6.26s
475:	learn: 0.2023571	total: 1m 59s	remaining: 6.01s
476:	learn: 0.2022994	total: 1m 59s	remaining: 5.76s
477:	learn: 0.2022445	total: 1m 59s	remaining: 5.51s
478:	learn: 0.2022003	total: 1m 59s	remaining: 5.26s
479:	learn: 0.2021248	total: 2m	remaining: 5.01s
480:	learn: 0.2020725	total: 2m	remaining: 4.76s
481:	learn: 0.2020479	total: 2m	remaining: 4.51s
482:	learn: 0.2020211	total: 2m	remaining: 4.26s
483:	learn: 0.2019401	total: 2m 1s	remaining: 4.01s
484:	learn: 0.2018523	total: 2m 1s	remaining: 3.75s
485:	learn: 0.2017856	total: 2m 1s	remaining: 3.5s
486:	learn: 0.2017625	total: 2m 1s	remaining: 3.25s
487:	learn: 0.2017367	total: 2m 2s	remaining: 3s
488:	learn: 0.2016980	total: 2m 2s	remaining: 2.75s
489:	learn: 0.2016899	total: 2m 2s	remaining: 2.5s
490:	learn: 0.2016766	total: 2m 2s	remaining: 2.25s
491:	learn: 0.2015906	total: 2m 3s	remaining: 2s
492:	learn: 0.2015284	total: 2m 3s	remaining: 1.75s
493:	learn: 0.2014777	total: 2m 3s	remaining: 1.5s
494:	learn: 0.2014142	total: 2m 3s	remaining: 1.25s
495:	learn: 0.2013692	total: 2m 4s	remaining: 1s
496:	learn: 0.2013048	total: 2m 4s	remaining: 752ms
497:	learn: 0.2012353	total: 2m 4s	remaining: 501ms
498:	learn: 0.2011872	total: 2m 5s	remaining: 251ms
499:	learn: 0.2010906	total: 2m 5s	remaining: 0us
Learning rate set to 0.173965			
0:	learn: 0.9722991	total: 250ms	remaining: 2m 4s
1:	learn: 0.8897130	total: 456ms	remaining: 1m 53s

2:	learn: 0.8307392	total: 711ms	remaining: 1m 57s
3:	learn: 0.7864693	total: 902ms	remaining: 1m 51s
4:	learn: 0.6734678	total: 1.15s	remaining: 1m 54s
5:	learn: 0.6213853	total: 1.37s	remaining: 1m 52s
6:	learn: 0.5492391	total: 1.6s	remaining: 1m 52s
7:	learn: 0.5147411	total: 1.83s	remaining: 1m 52s
8:	learn: 0.4823528	total: 2.09s	remaining: 1m 54s
9:	learn: 0.4710436	total: 2.29s	remaining: 1m 52s
10:	learn: 0.4385624	total: 2.5s	remaining: 1m 50s
11:	learn: 0.4134095	total: 2.69s	remaining: 1m 49s
12:	learn: 0.3923482	total: 2.85s	remaining: 1m 46s
13:	learn: 0.3756972	total: 3.03s	remaining: 1m 45s
14:	learn: 0.3679016	total: 3.21s	remaining: 1m 43s
15:	learn: 0.3559721	total: 3.4s	remaining: 1m 42s
16:	learn: 0.3442453	total: 3.59s	remaining: 1m 42s
17:	learn: 0.3331057	total: 3.84s	remaining: 1m 42s
18:	learn: 0.3299847	total: 4.09s	remaining: 1m 43s
19:	learn: 0.3239710	total: 4.33s	remaining: 1m 43s
20:	learn: 0.3155807	total: 4.57s	remaining: 1m 44s
21:	learn: 0.3087889	total: 4.84s	remaining: 1m 45s
22:	learn: 0.3070286	total: 5.09s	remaining: 1m 45s
23:	learn: 0.3048748	total: 5.36s	remaining: 1m 46s
24:	learn: 0.2967456	total: 5.66s	remaining: 1m 47s
25:	learn: 0.2958084	total: 5.93s	remaining: 1m 48s
26:	learn: 0.2884319	total: 6.23s	remaining: 1m 49s
27:	learn: 0.2817725	total: 6.51s	remaining: 1m 49s
28:	learn: 0.2769492	total: 6.77s	remaining: 1m 50s
29:	learn: 0.2738303	total: 7.05s	remaining: 1m 50s
30:	learn: 0.2731557	total: 7.32s	remaining: 1m 50s
31:	learn: 0.2707738	total: 7.61s	remaining: 1m 51s
32:	learn: 0.2691978	total: 7.9s	remaining: 1m 51s
33:	learn: 0.2675075	total: 8.17s	remaining: 1m 51s
34:	learn: 0.2651412	total: 8.43s	remaining: 1m 52s
35:	learn: 0.2639321	total: 8.7s	remaining: 1m 52s
36:	learn: 0.2627392	total: 8.97s	remaining: 1m 52s
37:	learn: 0.2623433	total: 9.27s	remaining: 1m 52s
38:	learn: 0.2618633	total: 9.55s	remaining: 1m 52s
39:	learn: 0.2587893	total: 9.82s	remaining: 1m 52s
40:	learn: 0.2579674	total: 10.1s	remaining: 1m 52s
41:	learn: 0.2574623	total: 10.3s	remaining: 1m 52s
42:	learn: 0.2544429	total: 10.6s	remaining: 1m 52s
43:	learn: 0.2541080	total: 10.9s	remaining: 1m 52s
44:	learn: 0.2536173	total: 11.1s	remaining: 1m 52s
45:	learn: 0.2526705	total: 11.4s	remaining: 1m 52s
46:	learn: 0.2524912	total: 11.7s	remaining: 1m 52s
47:	learn: 0.2524659	total: 12s	remaining: 1m 52s
48:	learn: 0.2519450	total: 12.2s	remaining: 1m 52s
49:	learn: 0.2515570	total: 12.5s	remaining: 1m 52s

50:	learn: 0.2513486	total: 12.8s	remaining: 1m 52s
51:	learn: 0.2510937	total: 13.1s	remaining: 1m 52s
52:	learn: 0.2484995	total: 13.4s	remaining: 1m 52s
53:	learn: 0.2481261	total: 13.6s	remaining: 1m 52s
54:	learn: 0.2480627	total: 13.9s	remaining: 1m 52s
55:	learn: 0.2479150	total: 14.1s	remaining: 1m 52s
56:	learn: 0.2476629	total: 14.4s	remaining: 1m 51s
57:	learn: 0.2475622	total: 14.7s	remaining: 1m 51s
58:	learn: 0.2473811	total: 15s	remaining: 1m 51s
59:	learn: 0.2453766	total: 15.2s	remaining: 1m 51s
60:	learn: 0.2431690	total: 15.5s	remaining: 1m 51s
61:	learn: 0.2431296	total: 15.8s	remaining: 1m 51s
62:	learn: 0.2425751	total: 16s	remaining: 1m 51s
63:	learn: 0.2421716	total: 16.3s	remaining: 1m 50s
64:	learn: 0.2420155	total: 16.5s	remaining: 1m 50s
65:	learn: 0.2402655	total: 16.7s	remaining: 1m 50s
66:	learn: 0.2399847	total: 17s	remaining: 1m 49s
67:	learn: 0.2396270	total: 17.2s	remaining: 1m 49s
68:	learn: 0.2393252	total: 17.4s	remaining: 1m 48s
69:	learn: 0.2392605	total: 17.7s	remaining: 1m 48s
70:	learn: 0.2392507	total: 17.9s	remaining: 1m 48s
71:	learn: 0.2389135	total: 18.2s	remaining: 1m 48s
72:	learn: 0.2387294	total: 18.4s	remaining: 1m 47s
73:	learn: 0.2384217	total: 18.7s	remaining: 1m 47s
74:	learn: 0.2382056	total: 18.9s	remaining: 1m 47s
75:	learn: 0.2371892	total: 19.2s	remaining: 1m 47s
76:	learn: 0.2370768	total: 19.4s	remaining: 1m 46s
77:	learn: 0.2369617	total: 19.7s	remaining: 1m 46s
78:	learn: 0.2368932	total: 19.9s	remaining: 1m 46s
79:	learn: 0.2366437	total: 20.2s	remaining: 1m 45s
80:	learn: 0.2365894	total: 20.4s	remaining: 1m 45s
81:	learn: 0.2358079	total: 20.6s	remaining: 1m 45s
82:	learn: 0.2343582	total: 20.9s	remaining: 1m 45s
83:	learn: 0.2342787	total: 21.2s	remaining: 1m 44s
84:	learn: 0.2341593	total: 21.4s	remaining: 1m 44s
85:	learn: 0.2340854	total: 21.7s	remaining: 1m 44s
86:	learn: 0.2339676	total: 22s	remaining: 1m 44s
87:	learn: 0.2338202	total: 22.2s	remaining: 1m 44s
88:	learn: 0.2325309	total: 22.5s	remaining: 1m 43s
89:	learn: 0.2323596	total: 22.8s	remaining: 1m 43s
90:	learn: 0.2322346	total: 23s	remaining: 1m 43s
91:	learn: 0.2314686	total: 23.3s	remaining: 1m 43s
92:	learn: 0.2313037	total: 23.5s	remaining: 1m 43s
93:	learn: 0.2312271	total: 23.8s	remaining: 1m 42s
94:	learn: 0.2311130	total: 24.1s	remaining: 1m 42s
95:	learn: 0.2310658	total: 24.3s	remaining: 1m 42s
96:	learn: 0.2308979	total: 24.6s	remaining: 1m 42s
97:	learn: 0.2307049	total: 24.9s	remaining: 1m 42s

98:	learn: 0.2303627	total: 25.1s	remaining: 1m 41s
99:	learn: 0.2301151	total: 25.4s	remaining: 1m 41s
100:	learn: 0.2300919	total: 25.7s	remaining: 1m 41s
101:	learn: 0.2300600	total: 25.9s	remaining: 1m 41s
102:	learn: 0.2300117	total: 26.2s	remaining: 1m 40s
103:	learn: 0.2299091	total: 26.4s	remaining: 1m 40s
104:	learn: 0.2294040	total: 26.7s	remaining: 1m 40s
105:	learn: 0.2293220	total: 26.9s	remaining: 1m 40s
106:	learn: 0.2292625	total: 27.2s	remaining: 1m 40s
107:	learn: 0.2291459	total: 27.5s	remaining: 1m 39s
108:	learn: 0.2290359	total: 27.8s	remaining: 1m 39s
109:	learn: 0.2288194	total: 28.1s	remaining: 1m 39s
110:	learn: 0.2288147	total: 28.3s	remaining: 1m 39s
111:	learn: 0.2287634	total: 28.6s	remaining: 1m 39s
112:	learn: 0.2286999	total: 28.9s	remaining: 1m 38s
113:	learn: 0.2285666	total: 29.1s	remaining: 1m 38s
114:	learn: 0.2284525	total: 29.4s	remaining: 1m 38s
115:	learn: 0.2282834	total: 29.7s	remaining: 1m 38s
116:	learn: 0.2282554	total: 29.9s	remaining: 1m 38s
117:	learn: 0.2281378	total: 30.2s	remaining: 1m 37s
118:	learn: 0.2280497	total: 30.5s	remaining: 1m 37s
119:	learn: 0.2279226	total: 30.8s	remaining: 1m 37s
120:	learn: 0.2278796	total: 31s	remaining: 1m 37s
121:	learn: 0.2277954	total: 31.3s	remaining: 1m 37s
122:	learn: 0.2276474	total: 31.6s	remaining: 1m 36s
123:	learn: 0.2275338	total: 31.9s	remaining: 1m 36s
124:	learn: 0.2274586	total: 32.1s	remaining: 1m 36s
125:	learn: 0.2272900	total: 32.4s	remaining: 1m 36s
126:	learn: 0.2272155	total: 32.6s	remaining: 1m 35s
127:	learn: 0.2271495	total: 32.8s	remaining: 1m 35s
128:	learn: 0.2270785	total: 33.1s	remaining: 1m 35s
129:	learn: 0.2270021	total: 33.3s	remaining: 1m 34s
130:	learn: 0.2268391	total: 33.5s	remaining: 1m 34s
131:	learn: 0.2266458	total: 33.8s	remaining: 1m 34s
132:	learn: 0.2265650	total: 34.1s	remaining: 1m 33s
133:	learn: 0.2265381	total: 34.3s	remaining: 1m 33s
134:	learn: 0.2264333	total: 34.5s	remaining: 1m 33s
135:	learn: 0.2263572	total: 34.8s	remaining: 1m 33s
136:	learn: 0.2263193	total: 35s	remaining: 1m 32s
137:	learn: 0.2260990	total: 35.3s	remaining: 1m 32s
138:	learn: 0.2259938	total: 35.5s	remaining: 1m 32s
139:	learn: 0.2259818	total: 35.8s	remaining: 1m 31s
140:	learn: 0.2259088	total: 36s	remaining: 1m 31s
141:	learn: 0.2258284	total: 36.2s	remaining: 1m 31s
142:	learn: 0.2257715	total: 36.5s	remaining: 1m 31s
143:	learn: 0.2256714	total: 36.7s	remaining: 1m 30s
144:	learn: 0.2256532	total: 37s	remaining: 1m 30s
145:	learn: 0.2256029	total: 37.2s	remaining: 1m 30s

146:	learn: 0.2255496	total: 37.4s	remaining: 1m 29s
147:	learn: 0.2246054	total: 37.7s	remaining: 1m 29s
148:	learn: 0.2245253	total: 37.9s	remaining: 1m 29s
149:	learn: 0.2244141	total: 38.2s	remaining: 1m 29s
150:	learn: 0.2243797	total: 38.5s	remaining: 1m 28s
151:	learn: 0.2243532	total: 38.7s	remaining: 1m 28s
152:	learn: 0.2242698	total: 39s	remaining: 1m 28s
153:	learn: 0.2241808	total: 39.2s	remaining: 1m 28s
154:	learn: 0.2241044	total: 39.5s	remaining: 1m 27s
155:	learn: 0.2240778	total: 39.7s	remaining: 1m 27s
156:	learn: 0.2240594	total: 40s	remaining: 1m 27s
157:	learn: 0.2237885	total: 40.3s	remaining: 1m 27s
158:	learn: 0.2237064	total: 40.5s	remaining: 1m 26s
159:	learn: 0.2236502	total: 40.8s	remaining: 1m 26s
160:	learn: 0.2236296	total: 41s	remaining: 1m 26s
161:	learn: 0.2235978	total: 41.3s	remaining: 1m 26s
162:	learn: 0.2235304	total: 41.5s	remaining: 1m 25s
163:	learn: 0.2233978	total: 41.8s	remaining: 1m 25s
164:	learn: 0.2232701	total: 42.1s	remaining: 1m 25s
165:	learn: 0.2232093	total: 42.3s	remaining: 1m 25s
166:	learn: 0.2230846	total: 42.6s	remaining: 1m 24s
167:	learn: 0.2229843	total: 42.9s	remaining: 1m 24s
168:	learn: 0.2229324	total: 43.1s	remaining: 1m 24s
169:	learn: 0.2228809	total: 43.4s	remaining: 1m 24s
170:	learn: 0.2228347	total: 43.7s	remaining: 1m 24s
171:	learn: 0.2227517	total: 44s	remaining: 1m 23s
172:	learn: 0.2226641	total: 44.2s	remaining: 1m 23s
173:	learn: 0.2225075	total: 44.5s	remaining: 1m 23s
174:	learn: 0.2224723	total: 44.7s	remaining: 1m 23s
175:	learn: 0.2223614	total: 45s	remaining: 1m 22s
176:	learn: 0.2222294	total: 45.3s	remaining: 1m 22s
177:	learn: 0.2222019	total: 45.5s	remaining: 1m 22s
178:	learn: 0.2221402	total: 45.8s	remaining: 1m 22s
179:	learn: 0.2218967	total: 46s	remaining: 1m 21s
180:	learn: 0.2218821	total: 46.3s	remaining: 1m 21s
181:	learn: 0.2217581	total: 46.6s	remaining: 1m 21s
182:	learn: 0.2216773	total: 46.8s	remaining: 1m 21s
183:	learn: 0.2216263	total: 47s	remaining: 1m 20s
184:	learn: 0.2214832	total: 47.3s	remaining: 1m 20s
185:	learn: 0.2214477	total: 47.5s	remaining: 1m 20s
186:	learn: 0.2214274	total: 47.8s	remaining: 1m 19s
187:	learn: 0.2213983	total: 48s	remaining: 1m 19s
188:	learn: 0.2209525	total: 48.3s	remaining: 1m 19s
189:	learn: 0.2208550	total: 48.5s	remaining: 1m 19s
190:	learn: 0.2207511	total: 48.8s	remaining: 1m 18s
191:	learn: 0.2206353	total: 49s	remaining: 1m 18s
192:	learn: 0.2205631	total: 49.2s	remaining: 1m 18s
193:	learn: 0.2204542	total: 49.5s	remaining: 1m 18s

194:	learn: 0.2203467	total: 49.7s	remaining: 1m 17s
195:	learn: 0.2203019	total: 49.9s	remaining: 1m 17s
196:	learn: 0.2202153	total: 50.2s	remaining: 1m 17s
197:	learn: 0.2201326	total: 50.4s	remaining: 1m 16s
198:	learn: 0.2201135	total: 50.6s	remaining: 1m 16s
199:	learn: 0.2199850	total: 50.9s	remaining: 1m 16s
200:	learn: 0.2198245	total: 51.1s	remaining: 1m 16s
201:	learn: 0.2198032	total: 51.3s	remaining: 1m 15s
202:	learn: 0.2197557	total: 51.6s	remaining: 1m 15s
203:	learn: 0.2197470	total: 51.8s	remaining: 1m 15s
204:	learn: 0.2196172	total: 52.1s	remaining: 1m 14s
205:	learn: 0.2195242	total: 52.3s	remaining: 1m 14s
206:	learn: 0.2194780	total: 52.6s	remaining: 1m 14s
207:	learn: 0.2194343	total: 52.8s	remaining: 1m 14s
208:	learn: 0.2190330	total: 53.1s	remaining: 1m 13s
209:	learn: 0.2189956	total: 53.3s	remaining: 1m 13s
210:	learn: 0.2189314	total: 53.6s	remaining: 1m 13s
211:	learn: 0.2189016	total: 53.9s	remaining: 1m 13s
212:	learn: 0.2188117	total: 54.1s	remaining: 1m 12s
213:	learn: 0.2187967	total: 54.4s	remaining: 1m 12s
214:	learn: 0.2187617	total: 54.7s	remaining: 1m 12s
215:	learn: 0.2187454	total: 54.9s	remaining: 1m 12s
216:	learn: 0.2186529	total: 55.2s	remaining: 1m 11s
217:	learn: 0.2185279	total: 55.4s	remaining: 1m 11s
218:	learn: 0.2184685	total: 55.7s	remaining: 1m 11s
219:	learn: 0.2184266	total: 55.9s	remaining: 1m 11s
220:	learn: 0.2182959	total: 56.2s	remaining: 1m 10s
221:	learn: 0.2181175	total: 56.4s	remaining: 1m 10s
222:	learn: 0.2179109	total: 56.7s	remaining: 1m 10s
223:	learn: 0.2178558	total: 57s	remaining: 1m 10s
224:	learn: 0.2178077	total: 57.3s	remaining: 1m 9s
225:	learn: 0.2177694	total: 57.5s	remaining: 1m 9s
226:	learn: 0.2177187	total: 57.8s	remaining: 1m 9s
227:	learn: 0.2176474	total: 58s	remaining: 1m 9s
228:	learn: 0.2175750	total: 58.3s	remaining: 1m 9s
229:	learn: 0.2175205	total: 58.6s	remaining: 1m 8s
230:	learn: 0.2174959	total: 58.9s	remaining: 1m 8s
231:	learn: 0.2174182	total: 59.1s	remaining: 1m 8s
232:	learn: 0.2173678	total: 59.4s	remaining: 1m 8s
233:	learn: 0.2173243	total: 59.6s	remaining: 1m 7s
234:	learn: 0.2172239	total: 59.8s	remaining: 1m 7s
235:	learn: 0.2171212	total: 1m	remaining: 1m 7s
236:	learn: 0.2170652	total: 1m	remaining: 1m 6s
237:	learn: 0.2169980	total: 1m	remaining: 1m 6s
238:	learn: 0.2169278	total: 1m	remaining: 1m 6s
239:	learn: 0.2168096	total: 1m	remaining: 1m 5s
240:	learn: 0.2167598	total: 1m	remaining: 1m 5s
241:	learn: 0.2167011	total: 1m 1s	remaining: 1m 5s

242:	learn: 0.2166391	total: 1m 1s	remaining: 1m 4s
243:	learn: 0.2165662	total: 1m 1s	remaining: 1m 4s
244:	learn: 0.2165335	total: 1m 1s	remaining: 1m 4s
245:	learn: 0.2164181	total: 1m 1s	remaining: 1m 3s
246:	learn: 0.2163534	total: 1m 2s	remaining: 1m 3s
247:	learn: 0.2163293	total: 1m 2s	remaining: 1m 3s
248:	learn: 0.2157115	total: 1m 2s	remaining: 1m 3s
249:	learn: 0.2156475	total: 1m 2s	remaining: 1m 2s
250:	learn: 0.2152939	total: 1m 3s	remaining: 1m 2s
251:	learn: 0.2152396	total: 1m 3s	remaining: 1m 2s
252:	learn: 0.2150910	total: 1m 3s	remaining: 1m 2s
253:	learn: 0.2149591	total: 1m 3s	remaining: 1m 1s
254:	learn: 0.2148279	total: 1m 4s	remaining: 1m 1s
255:	learn: 0.2147857	total: 1m 4s	remaining: 1m 1s
256:	learn: 0.2147371	total: 1m 4s	remaining: 1m 1s
257:	learn: 0.2146156	total: 1m 4s	remaining: 1m
258:	learn: 0.2144820	total: 1m 5s	remaining: 1m
259:	learn: 0.2144277	total: 1m 5s	remaining: 1m
260:	learn: 0.2143592	total: 1m 5s	remaining: 1m
261:	learn: 0.2143072	total: 1m 5s	remaining: 59.8s
262:	learn: 0.2142503	total: 1m 6s	remaining: 59.5s
263:	learn: 0.2142236	total: 1m 6s	remaining: 59.2s
264:	learn: 0.2142055	total: 1m 6s	remaining: 59s
265:	learn: 0.2141048	total: 1m 6s	remaining: 58.7s
266:	learn: 0.2140077	total: 1m 6s	remaining: 58.5s
267:	learn: 0.2139667	total: 1m 7s	remaining: 58.2s
268:	learn: 0.2139270	total: 1m 7s	remaining: 57.9s
269:	learn: 0.2136244	total: 1m 7s	remaining: 57.7s
270:	learn: 0.2134991	total: 1m 8s	remaining: 57.5s
271:	learn: 0.2134483	total: 1m 8s	remaining: 57.2s
272:	learn: 0.2129304	total: 1m 8s	remaining: 57s
273:	learn: 0.2128746	total: 1m 8s	remaining: 56.7s
274:	learn: 0.2128326	total: 1m 9s	remaining: 56.5s
275:	learn: 0.2128123	total: 1m 9s	remaining: 56.2s
276:	learn: 0.2127100	total: 1m 9s	remaining: 55.9s
277:	learn: 0.2126666	total: 1m 9s	remaining: 55.6s
278:	learn: 0.2125860	total: 1m 9s	remaining: 55.3s
279:	learn: 0.2124721	total: 1m 10s	remaining: 55s
280:	learn: 0.2123985	total: 1m 10s	remaining: 54.7s
281:	learn: 0.2123651	total: 1m 10s	remaining: 54.4s
282:	learn: 0.2123076	total: 1m 10s	remaining: 54.1s
283:	learn: 0.2122794	total: 1m 10s	remaining: 53.9s
284:	learn: 0.2122098	total: 1m 11s	remaining: 53.6s
285:	learn: 0.2121579	total: 1m 11s	remaining: 53.3s
286:	learn: 0.2119722	total: 1m 11s	remaining: 53s
287:	learn: 0.2118400	total: 1m 11s	remaining: 52.7s
288:	learn: 0.2117861	total: 1m 11s	remaining: 52.5s
289:	learn: 0.2117088	total: 1m 12s	remaining: 52.2s

290:	learn: 0.2116492	total: 1m 12s	remaining: 52s
291:	learn: 0.2115542	total: 1m 12s	remaining: 51.7s
292:	learn: 0.2115111	total: 1m 12s	remaining: 51.5s
293:	learn: 0.2114743	total: 1m 13s	remaining: 51.2s
294:	learn: 0.2114496	total: 1m 13s	remaining: 50.9s
295:	learn: 0.2114444	total: 1m 13s	remaining: 50.7s
296:	learn: 0.2114067	total: 1m 13s	remaining: 50.4s
297:	learn: 0.2113833	total: 1m 14s	remaining: 50.2s
298:	learn: 0.2113736	total: 1m 14s	remaining: 49.9s
299:	learn: 0.2112917	total: 1m 14s	remaining: 49.7s
300:	learn: 0.2111770	total: 1m 14s	remaining: 49.5s
301:	learn: 0.2111264	total: 1m 15s	remaining: 49.2s
302:	learn: 0.2110208	total: 1m 15s	remaining: 49s
303:	learn: 0.2110094	total: 1m 15s	remaining: 48.8s
304:	learn: 0.2109864	total: 1m 15s	remaining: 48.5s
305:	learn: 0.2108924	total: 1m 16s	remaining: 48.3s
306:	learn: 0.2108368	total: 1m 16s	remaining: 48s
307:	learn: 0.2107700	total: 1m 16s	remaining: 47.8s
308:	learn: 0.2106593	total: 1m 16s	remaining: 47.6s
309:	learn: 0.2106137	total: 1m 17s	remaining: 47.3s
310:	learn: 0.2105234	total: 1m 17s	remaining: 47.1s
311:	learn: 0.2104926	total: 1m 17s	remaining: 46.8s
312:	learn: 0.2104474	total: 1m 18s	remaining: 46.6s
313:	learn: 0.2103997	total: 1m 18s	remaining: 46.4s
314:	learn: 0.2102794	total: 1m 18s	remaining: 46.1s
315:	learn: 0.2102598	total: 1m 18s	remaining: 45.9s
316:	learn: 0.2102056	total: 1m 19s	remaining: 45.6s
317:	learn: 0.2101796	total: 1m 19s	remaining: 45.4s
318:	learn: 0.2101328	total: 1m 19s	remaining: 45.1s
319:	learn: 0.2101140	total: 1m 19s	remaining: 44.9s
320:	learn: 0.2100558	total: 1m 19s	remaining: 44.6s
321:	learn: 0.2099691	total: 1m 20s	remaining: 44.4s
322:	learn: 0.2099218	total: 1m 20s	remaining: 44.1s
323:	learn: 0.2098484	total: 1m 20s	remaining: 43.9s
324:	learn: 0.2098338	total: 1m 20s	remaining: 43.6s
325:	learn: 0.2097476	total: 1m 21s	remaining: 43.3s
326:	learn: 0.2096991	total: 1m 21s	remaining: 43.1s
327:	learn: 0.2096596	total: 1m 21s	remaining: 42.8s
328:	learn: 0.2095570	total: 1m 21s	remaining: 42.6s
329:	learn: 0.2093493	total: 1m 22s	remaining: 42.3s
330:	learn: 0.2092859	total: 1m 22s	remaining: 42.1s
331:	learn: 0.2091863	total: 1m 22s	remaining: 41.8s
332:	learn: 0.2091063	total: 1m 22s	remaining: 41.5s
333:	learn: 0.2090148	total: 1m 23s	remaining: 41.3s
334:	learn: 0.2089529	total: 1m 23s	remaining: 41s
335:	learn: 0.2088690	total: 1m 23s	remaining: 40.8s
336:	learn: 0.2088121	total: 1m 23s	remaining: 40.5s
337:	learn: 0.2087147	total: 1m 23s	remaining: 40.2s

338:	learn: 0.2086175	total: 1m 24s	remaining: 40s
339:	learn: 0.2085492	total: 1m 24s	remaining: 39.7s
340:	learn: 0.2084608	total: 1m 24s	remaining: 39.5s
341:	learn: 0.2084169	total: 1m 24s	remaining: 39.3s
342:	learn: 0.2083430	total: 1m 25s	remaining: 39s
343:	learn: 0.2083167	total: 1m 25s	remaining: 38.8s
344:	learn: 0.2082415	total: 1m 25s	remaining: 38.5s
345:	learn: 0.2081570	total: 1m 26s	remaining: 38.3s
346:	learn: 0.2077623	total: 1m 26s	remaining: 38.1s
347:	learn: 0.2076790	total: 1m 26s	remaining: 37.8s
348:	learn: 0.2076341	total: 1m 26s	remaining: 37.6s
349:	learn: 0.2075858	total: 1m 27s	remaining: 37.4s
350:	learn: 0.2075617	total: 1m 27s	remaining: 37.1s
351:	learn: 0.2075280	total: 1m 27s	remaining: 36.9s
352:	learn: 0.2074555	total: 1m 27s	remaining: 36.6s
353:	learn: 0.2074228	total: 1m 28s	remaining: 36.4s
354:	learn: 0.2073473	total: 1m 28s	remaining: 36.2s
355:	learn: 0.2073042	total: 1m 28s	remaining: 35.9s
356:	learn: 0.2071682	total: 1m 29s	remaining: 35.7s
357:	learn: 0.2070842	total: 1m 29s	remaining: 35.4s
358:	learn: 0.2069871	total: 1m 29s	remaining: 35.2s
359:	learn: 0.2069550	total: 1m 29s	remaining: 35s
360:	learn: 0.2069094	total: 1m 30s	remaining: 34.7s
361:	learn: 0.2068163	total: 1m 30s	remaining: 34.5s
362:	learn: 0.2067782	total: 1m 30s	remaining: 34.2s
363:	learn: 0.2067302	total: 1m 30s	remaining: 34s
364:	learn: 0.2066777	total: 1m 31s	remaining: 33.8s
365:	learn: 0.2066498	total: 1m 31s	remaining: 33.5s
366:	learn: 0.2065853	total: 1m 31s	remaining: 33.3s
367:	learn: 0.2065483	total: 1m 32s	remaining: 33s
368:	learn: 0.2064959	total: 1m 32s	remaining: 32.8s
369:	learn: 0.2064916	total: 1m 32s	remaining: 32.5s
370:	learn: 0.2064544	total: 1m 32s	remaining: 32.3s
371:	learn: 0.2063509	total: 1m 33s	remaining: 32s
372:	learn: 0.2063061	total: 1m 33s	remaining: 31.8s
373:	learn: 0.2062751	total: 1m 33s	remaining: 31.5s
374:	learn: 0.2062543	total: 1m 33s	remaining: 31.3s
375:	learn: 0.2062340	total: 1m 34s	remaining: 31.1s
376:	learn: 0.2062195	total: 1m 34s	remaining: 30.8s
377:	learn: 0.2061728	total: 1m 34s	remaining: 30.5s
378:	learn: 0.2060703	total: 1m 34s	remaining: 30.3s
379:	learn: 0.2059796	total: 1m 35s	remaining: 30.1s
380:	learn: 0.2058738	total: 1m 35s	remaining: 29.8s
381:	learn: 0.2058557	total: 1m 35s	remaining: 29.6s
382:	learn: 0.2057541	total: 1m 35s	remaining: 29.3s
383:	learn: 0.2056807	total: 1m 36s	remaining: 29.1s
384:	learn: 0.2056416	total: 1m 36s	remaining: 28.8s
385:	learn: 0.2055967	total: 1m 36s	remaining: 28.5s

386:	learn: 0.2055653	total: 1m 36s	remaining: 28.3s
387:	learn: 0.2055040	total: 1m 37s	remaining: 28s
388:	learn: 0.2054728	total: 1m 37s	remaining: 27.8s
389:	learn: 0.2054260	total: 1m 37s	remaining: 27.5s
390:	learn: 0.2053808	total: 1m 37s	remaining: 27.3s
391:	learn: 0.2053292	total: 1m 38s	remaining: 27s
392:	learn: 0.2052775	total: 1m 38s	remaining: 26.8s
393:	learn: 0.2052328	total: 1m 38s	remaining: 26.5s
394:	learn: 0.2052043	total: 1m 38s	remaining: 26.3s
395:	learn: 0.2051555	total: 1m 39s	remaining: 26s
396:	learn: 0.2050656	total: 1m 39s	remaining: 25.8s
397:	learn: 0.2050143	total: 1m 39s	remaining: 25.5s
398:	learn: 0.2049740	total: 1m 39s	remaining: 25.2s
399:	learn: 0.2049318	total: 1m 39s	remaining: 25s
400:	learn: 0.2048950	total: 1m 40s	remaining: 24.7s
401:	learn: 0.2048298	total: 1m 40s	remaining: 24.5s
402:	learn: 0.2047964	total: 1m 40s	remaining: 24.2s
403:	learn: 0.2047605	total: 1m 40s	remaining: 24s
404:	learn: 0.2047190	total: 1m 41s	remaining: 23.7s
405:	learn: 0.2046412	total: 1m 41s	remaining: 23.5s
406:	learn: 0.2045774	total: 1m 41s	remaining: 23.2s
407:	learn: 0.2045026	total: 1m 42s	remaining: 23s
408:	learn: 0.2044641	total: 1m 42s	remaining: 22.8s
409:	learn: 0.2043415	total: 1m 42s	remaining: 22.5s
410:	learn: 0.2043045	total: 1m 42s	remaining: 22.3s
411:	learn: 0.2042824	total: 1m 43s	remaining: 22s
412:	learn: 0.2042525	total: 1m 43s	remaining: 21.8s
413:	learn: 0.2042128	total: 1m 43s	remaining: 21.5s
414:	learn: 0.2041524	total: 1m 43s	remaining: 21.3s
415:	learn: 0.2040345	total: 1m 44s	remaining: 21s
416:	learn: 0.2040019	total: 1m 44s	remaining: 20.8s
417:	learn: 0.2039394	total: 1m 44s	remaining: 20.5s
418:	learn: 0.2038846	total: 1m 44s	remaining: 20.3s
419:	learn: 0.2038254	total: 1m 45s	remaining: 20s
420:	learn: 0.2037864	total: 1m 45s	remaining: 19.8s
421:	learn: 0.2036437	total: 1m 45s	remaining: 19.5s
422:	learn: 0.2035925	total: 1m 45s	remaining: 19.3s
423:	learn: 0.2034857	total: 1m 46s	remaining: 19s
424:	learn: 0.2033887	total: 1m 46s	remaining: 18.8s
425:	learn: 0.2033465	total: 1m 46s	remaining: 18.5s
426:	learn: 0.2033330	total: 1m 47s	remaining: 18.3s
427:	learn: 0.2032835	total: 1m 47s	remaining: 18s
428:	learn: 0.2032194	total: 1m 47s	remaining: 17.8s
429:	learn: 0.2031837	total: 1m 47s	remaining: 17.6s
430:	learn: 0.2031277	total: 1m 48s	remaining: 17.3s
431:	learn: 0.2030919	total: 1m 48s	remaining: 17.1s
432:	learn: 0.2030828	total: 1m 48s	remaining: 16.8s
433:	learn: 0.2028908	total: 1m 48s	remaining: 16.6s

434:	learn: 0.2028649	total: 1m 49s	remaining: 16.3s
435:	learn: 0.2028202	total: 1m 49s	remaining: 16.1s
436:	learn: 0.2027810	total: 1m 49s	remaining: 15.8s
437:	learn: 0.2027380	total: 1m 50s	remaining: 15.6s
438:	learn: 0.2027315	total: 1m 50s	remaining: 15.3s
439:	learn: 0.2026329	total: 1m 50s	remaining: 15.1s
440:	learn: 0.2025304	total: 1m 50s	remaining: 14.8s
441:	learn: 0.2024972	total: 1m 50s	remaining: 14.6s
442:	learn: 0.2024613	total: 1m 51s	remaining: 14.3s
443:	learn: 0.2024361	total: 1m 51s	remaining: 14.1s
444:	learn: 0.2023929	total: 1m 51s	remaining: 13.8s
445:	learn: 0.2023292	total: 1m 51s	remaining: 13.6s
446:	learn: 0.2022525	total: 1m 52s	remaining: 13.3s
447:	learn: 0.2022198	total: 1m 52s	remaining: 13.1s
448:	learn: 0.2020599	total: 1m 52s	remaining: 12.8s
449:	learn: 0.2020208	total: 1m 52s	remaining: 12.6s
450:	learn: 0.2020068	total: 1m 53s	remaining: 12.3s
451:	learn: 0.2019514	total: 1m 53s	remaining: 12s
452:	learn: 0.2018908	total: 1m 53s	remaining: 11.8s
453:	learn: 0.2018683	total: 1m 53s	remaining: 11.5s
454:	learn: 0.2018419	total: 1m 54s	remaining: 11.3s
455:	learn: 0.2017766	total: 1m 54s	remaining: 11s
456:	learn: 0.2017616	total: 1m 54s	remaining: 10.8s
457:	learn: 0.2017117	total: 1m 54s	remaining: 10.5s
458:	learn: 0.2016023	total: 1m 55s	remaining: 10.3s
459:	learn: 0.2015788	total: 1m 55s	remaining: 10s
460:	learn: 0.2015280	total: 1m 55s	remaining: 9.78s
461:	learn: 0.2014883	total: 1m 55s	remaining: 9.53s
462:	learn: 0.2014230	total: 1m 56s	remaining: 9.29s
463:	learn: 0.2013857	total: 1m 56s	remaining: 9.04s
464:	learn: 0.2013286	total: 1m 56s	remaining: 8.79s
465:	learn: 0.2013116	total: 1m 56s	remaining: 8.53s
466:	learn: 0.2012924	total: 1m 57s	remaining: 8.28s
467:	learn: 0.2012633	total: 1m 57s	remaining: 8.03s
468:	learn: 0.2011820	total: 1m 57s	remaining: 7.78s
469:	learn: 0.2011057	total: 1m 57s	remaining: 7.53s
470:	learn: 0.2009931	total: 1m 58s	remaining: 7.28s
471:	learn: 0.2009427	total: 1m 58s	remaining: 7.03s
472:	learn: 0.2008899	total: 1m 58s	remaining: 6.78s
473:	learn: 0.2008764	total: 1m 59s	remaining: 6.53s
474:	learn: 0.2008240	total: 1m 59s	remaining: 6.28s
475:	learn: 0.2007544	total: 1m 59s	remaining: 6.03s
476:	learn: 0.2007243	total: 1m 59s	remaining: 5.78s
477:	learn: 0.2006142	total: 2m	remaining: 5.53s
478:	learn: 0.2005308	total: 2m	remaining: 5.28s
479:	learn: 0.2004556	total: 2m	remaining: 5.03s
480:	learn: 0.2003234	total: 2m	remaining: 4.78s
481:	learn: 0.2002268	total: 2m 1s	remaining: 4.53s

482:	learn: 0.2001840	total: 2m 1s	remaining: 4.28s
483:	learn: 0.2001649	total: 2m 1s	remaining: 4.03s
484:	learn: 0.2001183	total: 2m 2s	remaining: 3.77s
485:	learn: 0.2000983	total: 2m 2s	remaining: 3.52s
486:	learn: 0.2000424	total: 2m 2s	remaining: 3.27s
487:	learn: 0.2000085	total: 2m 2s	remaining: 3.02s
488:	learn: 0.1999373	total: 2m 3s	remaining: 2.77s
489:	learn: 0.1998971	total: 2m 3s	remaining: 2.52s
490:	learn: 0.1998344	total: 2m 3s	remaining: 2.27s
491:	learn: 0.1997443	total: 2m 3s	remaining: 2.01s
492:	learn: 0.1996633	total: 2m 4s	remaining: 1.76s
493:	learn: 0.1996375	total: 2m 4s	remaining: 1.51s
494:	learn: 0.1995853	total: 2m 4s	remaining: 1.26s
495:	learn: 0.1994846	total: 2m 4s	remaining: 1.01s
496:	learn: 0.1993792	total: 2m 5s	remaining: 756ms
497:	learn: 0.1993506	total: 2m 5s	remaining: 504ms
498:	learn: 0.1993154	total: 2m 5s	remaining: 252ms
499:	learn: 0.1992662	total: 2m 6s	remaining: 0us

Learning rate set to 0.173965

0:	learn: 0.9724600	total: 268ms	remaining: 2m 13s
1:	learn: 0.8907111	total: 471ms	remaining: 1m 57s
2:	learn: 0.8315699	total: 720ms	remaining: 1m 59s
3:	learn: 0.7883131	total: 892ms	remaining: 1m 50s
4:	learn: 0.6749170	total: 1.09s	remaining: 1m 47s
5:	learn: 0.6236951	total: 1.27s	remaining: 1m 44s
6:	learn: 0.5592617	total: 1.47s	remaining: 1m 43s
7:	learn: 0.5342018	total: 1.65s	remaining: 1m 41s
8:	learn: 0.4892711	total: 1.84s	remaining: 1m 40s
9:	learn: 0.4554257	total: 2.02s	remaining: 1m 38s
10:	learn: 0.4326566	total: 2.18s	remaining: 1m 37s
11:	learn: 0.4087579	total: 2.37s	remaining: 1m 36s
12:	learn: 0.3847695	total: 2.59s	remaining: 1m 37s
13:	learn: 0.3685936	total: 2.8s	remaining: 1m 37s
14:	learn: 0.3559712	total: 2.98s	remaining: 1m 36s
15:	learn: 0.3515407	total: 3.17s	remaining: 1m 35s
16:	learn: 0.3406724	total: 3.4s	remaining: 1m 36s
17:	learn: 0.3283952	total: 3.65s	remaining: 1m 37s
18:	learn: 0.3177661	total: 3.92s	remaining: 1m 39s
19:	learn: 0.3122098	total: 4.15s	remaining: 1m 39s
20:	learn: 0.3056332	total: 4.39s	remaining: 1m 40s
21:	learn: 0.2987380	total: 4.6s	remaining: 1m 39s
22:	learn: 0.2908054	total: 4.86s	remaining: 1m 40s
23:	learn: 0.2843957	total: 5.12s	remaining: 1m 41s
24:	learn: 0.2821050	total: 5.41s	remaining: 1m 42s
25:	learn: 0.2799260	total: 5.7s	remaining: 1m 43s
26:	learn: 0.2783405	total: 5.96s	remaining: 1m 44s
27:	learn: 0.2729626	total: 6.27s	remaining: 1m 45s
28:	learn: 0.2721108	total: 6.6s	remaining: 1m 47s

29:	learn: 0.2681045	total: 6.93s	remaining: 1m 48s
30:	learn: 0.2673761	total: 7.19s	remaining: 1m 48s
31:	learn: 0.2666096	total: 7.46s	remaining: 1m 49s
32:	learn: 0.2658675	total: 7.71s	remaining: 1m 49s
33:	learn: 0.2650692	total: 7.97s	remaining: 1m 49s
34:	learn: 0.2632041	total: 8.28s	remaining: 1m 50s
35:	learn: 0.2622991	total: 8.57s	remaining: 1m 50s
36:	learn: 0.2619144	total: 8.83s	remaining: 1m 50s
37:	learn: 0.2602030	total: 9.11s	remaining: 1m 50s
38:	learn: 0.2562582	total: 9.39s	remaining: 1m 50s
39:	learn: 0.2555487	total: 9.66s	remaining: 1m 51s
40:	learn: 0.2550763	total: 9.91s	remaining: 1m 51s
41:	learn: 0.2548338	total: 10.2s	remaining: 1m 51s
42:	learn: 0.2534529	total: 10.5s	remaining: 1m 51s
43:	learn: 0.2530407	total: 10.8s	remaining: 1m 51s
44:	learn: 0.2523405	total: 11s	remaining: 1m 51s
45:	learn: 0.2507983	total: 11.3s	remaining: 1m 51s
46:	learn: 0.2503560	total: 11.6s	remaining: 1m 51s
47:	learn: 0.2501353	total: 11.9s	remaining: 1m 51s
48:	learn: 0.2498342	total: 12.1s	remaining: 1m 51s
49:	learn: 0.2483433	total: 12.4s	remaining: 1m 51s
50:	learn: 0.2476088	total: 12.7s	remaining: 1m 51s
51:	learn: 0.2474058	total: 13s	remaining: 1m 51s
52:	learn: 0.2469929	total: 13.3s	remaining: 1m 52s
53:	learn: 0.2467379	total: 13.6s	remaining: 1m 52s
54:	learn: 0.2464587	total: 13.8s	remaining: 1m 51s
55:	learn: 0.2463071	total: 14.1s	remaining: 1m 51s
56:	learn: 0.2459254	total: 14.4s	remaining: 1m 51s
57:	learn: 0.2449762	total: 14.7s	remaining: 1m 51s
58:	learn: 0.2443652	total: 14.9s	remaining: 1m 51s
59:	learn: 0.2439577	total: 15.1s	remaining: 1m 51s
60:	learn: 0.2437367	total: 15.4s	remaining: 1m 51s
61:	learn: 0.2436115	total: 15.7s	remaining: 1m 50s
62:	learn: 0.2420893	total: 16s	remaining: 1m 50s
63:	learn: 0.2400083	total: 16.2s	remaining: 1m 50s
64:	learn: 0.2397699	total: 16.5s	remaining: 1m 50s
65:	learn: 0.2395328	total: 16.8s	remaining: 1m 50s
66:	learn: 0.2393853	total: 17s	remaining: 1m 49s
67:	learn: 0.2392640	total: 17.2s	remaining: 1m 49s
68:	learn: 0.2390887	total: 17.4s	remaining: 1m 48s
69:	learn: 0.2390108	total: 17.7s	remaining: 1m 48s
70:	learn: 0.2389330	total: 18s	remaining: 1m 48s
71:	learn: 0.2387725	total: 18.2s	remaining: 1m 48s
72:	learn: 0.2386745	total: 18.4s	remaining: 1m 47s
73:	learn: 0.2385812	total: 18.7s	remaining: 1m 47s
74:	learn: 0.2382442	total: 18.9s	remaining: 1m 47s
75:	learn: 0.2379558	total: 19.1s	remaining: 1m 46s
76:	learn: 0.2370570	total: 19.4s	remaining: 1m 46s

77:	learn: 0.2369233	total: 19.6s	remaining: 1m 46s
78:	learn: 0.2367681	total: 19.9s	remaining: 1m 45s
79:	learn: 0.2362666	total: 20.1s	remaining: 1m 45s
80:	learn: 0.2360372	total: 20.4s	remaining: 1m 45s
81:	learn: 0.2358879	total: 20.6s	remaining: 1m 45s
82:	learn: 0.2353839	total: 20.9s	remaining: 1m 44s
83:	learn: 0.2338050	total: 21.1s	remaining: 1m 44s
84:	learn: 0.2336055	total: 21.3s	remaining: 1m 44s
85:	learn: 0.2335190	total: 21.6s	remaining: 1m 43s
86:	learn: 0.2334191	total: 21.8s	remaining: 1m 43s
87:	learn: 0.2332137	total: 22.1s	remaining: 1m 43s
88:	learn: 0.2331433	total: 22.3s	remaining: 1m 43s
89:	learn: 0.2329729	total: 22.6s	remaining: 1m 42s
90:	learn: 0.2329354	total: 22.8s	remaining: 1m 42s
91:	learn: 0.2328957	total: 23.1s	remaining: 1m 42s
92:	learn: 0.2327546	total: 23.4s	remaining: 1m 42s
93:	learn: 0.2325058	total: 23.7s	remaining: 1m 42s
94:	learn: 0.2324846	total: 23.9s	remaining: 1m 42s
95:	learn: 0.2322946	total: 24.2s	remaining: 1m 41s
96:	learn: 0.2322331	total: 24.5s	remaining: 1m 41s
97:	learn: 0.2321086	total: 24.7s	remaining: 1m 41s
98:	learn: 0.2318275	total: 25.1s	remaining: 1m 41s
99:	learn: 0.2315001	total: 25.3s	remaining: 1m 41s
100:	learn: 0.2312475	total: 25.6s	remaining: 1m 41s
101:	learn: 0.2310543	total: 25.9s	remaining: 1m 41s
102:	learn: 0.2304048	total: 26.2s	remaining: 1m 40s
103:	learn: 0.2302312	total: 26.4s	remaining: 1m 40s
104:	learn: 0.2302246	total: 26.7s	remaining: 1m 40s
105:	learn: 0.2300185	total: 27s	remaining: 1m 40s
106:	learn: 0.2297384	total: 27.2s	remaining: 1m 40s
107:	learn: 0.2296290	total: 27.5s	remaining: 1m 39s
108:	learn: 0.2294529	total: 27.8s	remaining: 1m 39s
109:	learn: 0.2293331	total: 28.1s	remaining: 1m 39s
110:	learn: 0.2290470	total: 28.3s	remaining: 1m 39s
111:	learn: 0.2289505	total: 28.6s	remaining: 1m 39s
112:	learn: 0.2289134	total: 28.9s	remaining: 1m 39s
113:	learn: 0.2287414	total: 29.2s	remaining: 1m 38s
114:	learn: 0.2287011	total: 29.5s	remaining: 1m 38s
115:	learn: 0.2286156	total: 29.8s	remaining: 1m 38s
116:	learn: 0.2280517	total: 30.1s	remaining: 1m 38s
117:	learn: 0.2279575	total: 30.4s	remaining: 1m 38s
118:	learn: 0.2279073	total: 30.6s	remaining: 1m 38s
119:	learn: 0.2271638	total: 31s	remaining: 1m 38s
120:	learn: 0.2270733	total: 31.3s	remaining: 1m 37s
121:	learn: 0.2270167	total: 31.5s	remaining: 1m 37s
122:	learn: 0.2267915	total: 31.8s	remaining: 1m 37s
123:	learn: 0.2266160	total: 32.1s	remaining: 1m 37s
124:	learn: 0.2265531	total: 32.4s	remaining: 1m 37s

125:	learn: 0.2264997	total: 32.7s	remaining: 1m 37s
126:	learn: 0.2264483	total: 33s	remaining: 1m 36s
127:	learn: 0.2264019	total: 33.2s	remaining: 1m 36s
128:	learn: 0.2263191	total: 33.5s	remaining: 1m 36s
129:	learn: 0.2259456	total: 33.7s	remaining: 1m 35s
130:	learn: 0.2258986	total: 33.9s	remaining: 1m 35s
131:	learn: 0.2254256	total: 34.2s	remaining: 1m 35s
132:	learn: 0.2252594	total: 34.5s	remaining: 1m 35s
133:	learn: 0.2252054	total: 34.7s	remaining: 1m 34s
134:	learn: 0.2250548	total: 34.9s	remaining: 1m 34s
135:	learn: 0.2248881	total: 35.2s	remaining: 1m 34s
136:	learn: 0.2247474	total: 35.4s	remaining: 1m 33s
137:	learn: 0.2246725	total: 35.7s	remaining: 1m 33s
138:	learn: 0.2245929	total: 36s	remaining: 1m 33s
139:	learn: 0.2245331	total: 36.2s	remaining: 1m 33s
140:	learn: 0.2244863	total: 36.5s	remaining: 1m 32s
141:	learn: 0.2241272	total: 36.7s	remaining: 1m 32s
142:	learn: 0.2240855	total: 37s	remaining: 1m 32s
143:	learn: 0.2240008	total: 37.2s	remaining: 1m 32s
144:	learn: 0.2238866	total: 37.5s	remaining: 1m 31s
145:	learn: 0.2237928	total: 37.8s	remaining: 1m 31s
146:	learn: 0.2235810	total: 38.1s	remaining: 1m 31s
147:	learn: 0.2232470	total: 38.4s	remaining: 1m 31s
148:	learn: 0.2231935	total: 38.7s	remaining: 1m 31s
149:	learn: 0.2231645	total: 38.9s	remaining: 1m 30s
150:	learn: 0.2231150	total: 39.2s	remaining: 1m 30s
151:	learn: 0.2229468	total: 39.5s	remaining: 1m 30s
152:	learn: 0.2228809	total: 39.8s	remaining: 1m 30s
153:	learn: 0.2227662	total: 40.1s	remaining: 1m 30s
154:	learn: 0.2226866	total: 40.4s	remaining: 1m 29s
155:	learn: 0.2226088	total: 40.7s	remaining: 1m 29s
156:	learn: 0.2225389	total: 41s	remaining: 1m 29s
157:	learn: 0.2224755	total: 41.2s	remaining: 1m 29s
158:	learn: 0.2224590	total: 41.5s	remaining: 1m 29s
159:	learn: 0.2224009	total: 41.8s	remaining: 1m 28s
160:	learn: 0.2223812	total: 42.1s	remaining: 1m 28s
161:	learn: 0.2222937	total: 42.4s	remaining: 1m 28s
162:	learn: 0.2222524	total: 42.7s	remaining: 1m 28s
163:	learn: 0.2221678	total: 43s	remaining: 1m 28s
164:	learn: 0.2220594	total: 43.3s	remaining: 1m 27s
165:	learn: 0.2219407	total: 43.6s	remaining: 1m 27s
166:	learn: 0.2215481	total: 43.9s	remaining: 1m 27s
167:	learn: 0.2215098	total: 44.2s	remaining: 1m 27s
168:	learn: 0.2214378	total: 44.4s	remaining: 1m 27s
169:	learn: 0.2213766	total: 44.7s	remaining: 1m 26s
170:	learn: 0.2211994	total: 45s	remaining: 1m 26s
171:	learn: 0.2211144	total: 45.3s	remaining: 1m 26s
172:	learn: 0.2210684	total: 45.7s	remaining: 1m 26s

173:	learn: 0.2209737	total: 46s	remaining: 1m 26s
174:	learn: 0.2209489	total: 46.2s	remaining: 1m 25s
175:	learn: 0.2208491	total: 46.5s	remaining: 1m 25s
176:	learn: 0.2207130	total: 46.8s	remaining: 1m 25s
177:	learn: 0.2206243	total: 47.1s	remaining: 1m 25s
178:	learn: 0.2205871	total: 47.4s	remaining: 1m 24s
179:	learn: 0.2205504	total: 47.6s	remaining: 1m 24s
180:	learn: 0.2204609	total: 47.9s	remaining: 1m 24s
181:	learn: 0.2201940	total: 48.2s	remaining: 1m 24s
182:	learn: 0.2201551	total: 48.4s	remaining: 1m 23s
183:	learn: 0.2200947	total: 48.7s	remaining: 1m 23s
184:	learn: 0.2200260	total: 48.9s	remaining: 1m 23s
185:	learn: 0.2199572	total: 49.2s	remaining: 1m 23s
186:	learn: 0.2199312	total: 49.5s	remaining: 1m 22s
187:	learn: 0.2198473	total: 49.8s	remaining: 1m 22s
188:	learn: 0.2197581	total: 50s	remaining: 1m 22s
189:	learn: 0.2196533	total: 50.2s	remaining: 1m 21s
190:	learn: 0.2195442	total: 50.5s	remaining: 1m 21s
191:	learn: 0.2194796	total: 50.7s	remaining: 1m 21s
192:	learn: 0.2193402	total: 51s	remaining: 1m 21s
193:	learn: 0.2192024	total: 51.3s	remaining: 1m 20s
194:	learn: 0.2190823	total: 51.6s	remaining: 1m 20s
195:	learn: 0.2190173	total: 51.8s	remaining: 1m 20s
196:	learn: 0.2189874	total: 52s	remaining: 1m 20s
197:	learn: 0.2189181	total: 52.3s	remaining: 1m 19s
198:	learn: 0.2188619	total: 52.5s	remaining: 1m 19s
199:	learn: 0.2187533	total: 52.7s	remaining: 1m 19s
200:	learn: 0.2187046	total: 53s	remaining: 1m 18s
201:	learn: 0.2186375	total: 53.2s	remaining: 1m 18s
202:	learn: 0.2186043	total: 53.5s	remaining: 1m 18s
203:	learn: 0.2185154	total: 53.7s	remaining: 1m 17s
204:	learn: 0.2184726	total: 54s	remaining: 1m 17s
205:	learn: 0.2184071	total: 54.3s	remaining: 1m 17s
206:	learn: 0.2182855	total: 54.6s	remaining: 1m 17s
207:	learn: 0.2182475	total: 54.8s	remaining: 1m 16s
208:	learn: 0.2182150	total: 55s	remaining: 1m 16s
209:	learn: 0.2181856	total: 55.2s	remaining: 1m 16s
210:	learn: 0.2181520	total: 55.4s	remaining: 1m 15s
211:	learn: 0.2180744	total: 55.6s	remaining: 1m 15s
212:	learn: 0.2180237	total: 55.8s	remaining: 1m 15s
213:	learn: 0.2179943	total: 56s	remaining: 1m 14s
214:	learn: 0.2178125	total: 56.3s	remaining: 1m 14s
215:	learn: 0.2177623	total: 56.5s	remaining: 1m 14s
216:	learn: 0.2177376	total: 56.7s	remaining: 1m 13s
217:	learn: 0.2175596	total: 56.9s	remaining: 1m 13s
218:	learn: 0.2174212	total: 57.1s	remaining: 1m 13s
219:	learn: 0.2173936	total: 57.4s	remaining: 1m 12s
220:	learn: 0.2172956	total: 57.6s	remaining: 1m 12s

221:	learn: 0.2172681	total: 57.9s	remaining: 1m 12s
222:	learn: 0.2172207	total: 58.2s	remaining: 1m 12s
223:	learn: 0.2172010	total: 58.5s	remaining: 1m 12s
224:	learn: 0.2171752	total: 58.7s	remaining: 1m 11s
225:	learn: 0.2171276	total: 59s	remaining: 1m 11s
226:	learn: 0.2170840	total: 59.3s	remaining: 1m 11s
227:	learn: 0.2170083	total: 59.6s	remaining: 1m 11s
228:	learn: 0.2168289	total: 59.8s	remaining: 1m 10s
229:	learn: 0.2167957	total: 1m	remaining: 1m 10s
230:	learn: 0.2166382	total: 1m	remaining: 1m 10s
231:	learn: 0.2165624	total: 1m	remaining: 1m 10s
232:	learn: 0.2165098	total: 1m	remaining: 1m 9s
233:	learn: 0.2164750	total: 1m 1s	remaining: 1m 9s
234:	learn: 0.2163988	total: 1m 1s	remaining: 1m 9s
235:	learn: 0.2163361	total: 1m 1s	remaining: 1m 9s
236:	learn: 0.2163210	total: 1m 2s	remaining: 1m 8s
237:	learn: 0.2162720	total: 1m 2s	remaining: 1m 8s
238:	learn: 0.2162291	total: 1m 2s	remaining: 1m 8s
239:	learn: 0.2162140	total: 1m 2s	remaining: 1m 8s
240:	learn: 0.2161119	total: 1m 3s	remaining: 1m 7s
241:	learn: 0.2160636	total: 1m 3s	remaining: 1m 7s
242:	learn: 0.2159482	total: 1m 3s	remaining: 1m 7s
243:	learn: 0.2158243	total: 1m 3s	remaining: 1m 7s
244:	learn: 0.2158040	total: 1m 4s	remaining: 1m 6s
245:	learn: 0.2157497	total: 1m 4s	remaining: 1m 6s
246:	learn: 0.2156476	total: 1m 4s	remaining: 1m 6s
247:	learn: 0.2155091	total: 1m 4s	remaining: 1m 6s
248:	learn: 0.2154104	total: 1m 5s	remaining: 1m 5s
249:	learn: 0.2152778	total: 1m 5s	remaining: 1m 5s
250:	learn: 0.2152194	total: 1m 5s	remaining: 1m 5s
251:	learn: 0.2151151	total: 1m 5s	remaining: 1m 4s
252:	learn: 0.2150514	total: 1m 6s	remaining: 1m 4s
253:	learn: 0.2149784	total: 1m 6s	remaining: 1m 4s
254:	learn: 0.2149723	total: 1m 6s	remaining: 1m 4s
255:	learn: 0.2149054	total: 1m 6s	remaining: 1m 3s
256:	learn: 0.2147806	total: 1m 7s	remaining: 1m 3s
257:	learn: 0.2147231	total: 1m 7s	remaining: 1m 3s
258:	learn: 0.2146506	total: 1m 7s	remaining: 1m 2s
259:	learn: 0.2146051	total: 1m 7s	remaining: 1m 2s
260:	learn: 0.2145613	total: 1m 8s	remaining: 1m 2s
261:	learn: 0.2145408	total: 1m 8s	remaining: 1m 2s
262:	learn: 0.2144648	total: 1m 8s	remaining: 1m 1s
263:	learn: 0.2144146	total: 1m 8s	remaining: 1m 1s
264:	learn: 0.2143408	total: 1m 9s	remaining: 1m 1s
265:	learn: 0.2143065	total: 1m 9s	remaining: 1m 1s
266:	learn: 0.2142504	total: 1m 9s	remaining: 1m
267:	learn: 0.2142028	total: 1m 9s	remaining: 1m
268:	learn: 0.2141155	total: 1m 10s	remaining: 1m

269:	learn: 0.2141062	total: 1m 10s	remaining: 60s
270:	learn: 0.2137460	total: 1m 10s	remaining: 59.8s
271:	learn: 0.2137017	total: 1m 10s	remaining: 59.5s
272:	learn: 0.2136555	total: 1m 11s	remaining: 59.2s
273:	learn: 0.2134885	total: 1m 11s	remaining: 58.9s
274:	learn: 0.2134461	total: 1m 11s	remaining: 58.7s
275:	learn: 0.2134377	total: 1m 11s	remaining: 58.4s
276:	learn: 0.2132963	total: 1m 12s	remaining: 58.2s
277:	learn: 0.2131870	total: 1m 12s	remaining: 57.9s
278:	learn: 0.2130950	total: 1m 12s	remaining: 57.6s
279:	learn: 0.2130467	total: 1m 13s	remaining: 57.4s
280:	learn: 0.2129847	total: 1m 13s	remaining: 57.2s
281:	learn: 0.2128847	total: 1m 13s	remaining: 56.9s
282:	learn: 0.2128793	total: 1m 13s	remaining: 56.6s
283:	learn: 0.2127945	total: 1m 14s	remaining: 56.4s
284:	learn: 0.2127464	total: 1m 14s	remaining: 56.1s
285:	learn: 0.2127071	total: 1m 14s	remaining: 55.9s
286:	learn: 0.2126667	total: 1m 14s	remaining: 55.6s
287:	learn: 0.2126030	total: 1m 15s	remaining: 55.4s
288:	learn: 0.2125405	total: 1m 15s	remaining: 55.1s
289:	learn: 0.2124860	total: 1m 15s	remaining: 54.9s
290:	learn: 0.2123730	total: 1m 16s	remaining: 54.6s
291:	learn: 0.2123504	total: 1m 16s	remaining: 54.3s
292:	learn: 0.2123232	total: 1m 16s	remaining: 54.1s
293:	learn: 0.2122935	total: 1m 16s	remaining: 53.8s
294:	learn: 0.2122481	total: 1m 17s	remaining: 53.5s
295:	learn: 0.2122120	total: 1m 17s	remaining: 53.2s
296:	learn: 0.2121796	total: 1m 17s	remaining: 53s
297:	learn: 0.2121288	total: 1m 17s	remaining: 52.7s
298:	learn: 0.2121069	total: 1m 18s	remaining: 52.4s
299:	learn: 0.2120865	total: 1m 18s	remaining: 52.2s
300:	learn: 0.2120223	total: 1m 18s	remaining: 51.9s
301:	learn: 0.2119575	total: 1m 18s	remaining: 51.7s
302:	learn: 0.2118831	total: 1m 19s	remaining: 51.4s
303:	learn: 0.2118035	total: 1m 19s	remaining: 51.2s
304:	learn: 0.2117435	total: 1m 19s	remaining: 50.9s
305:	learn: 0.2116924	total: 1m 19s	remaining: 50.7s
306:	learn: 0.2116601	total: 1m 20s	remaining: 50.4s
307:	learn: 0.2116201	total: 1m 20s	remaining: 50.1s
308:	learn: 0.2115248	total: 1m 20s	remaining: 49.9s
309:	learn: 0.2114358	total: 1m 20s	remaining: 49.6s
310:	learn: 0.2113547	total: 1m 21s	remaining: 49.3s
311:	learn: 0.2112034	total: 1m 21s	remaining: 49s
312:	learn: 0.2111451	total: 1m 21s	remaining: 48.7s
313:	learn: 0.2110351	total: 1m 21s	remaining: 48.5s
314:	learn: 0.2110071	total: 1m 22s	remaining: 48.2s
315:	learn: 0.2108528	total: 1m 22s	remaining: 47.9s
316:	learn: 0.2107700	total: 1m 22s	remaining: 47.7s

317:	learn: 0.2107497	total: 1m 22s	remaining: 47.4s
318:	learn: 0.2106615	total: 1m 23s	remaining: 47.1s
319:	learn: 0.2105425	total: 1m 23s	remaining: 46.9s
320:	learn: 0.2104685	total: 1m 23s	remaining: 46.6s
321:	learn: 0.2104136	total: 1m 23s	remaining: 46.3s
322:	learn: 0.2103449	total: 1m 24s	remaining: 46.1s
323:	learn: 0.2102799	total: 1m 24s	remaining: 45.8s
324:	learn: 0.2101198	total: 1m 24s	remaining: 45.5s
325:	learn: 0.2101002	total: 1m 24s	remaining: 45.2s
326:	learn: 0.2100321	total: 1m 25s	remaining: 45s
327:	learn: 0.2099616	total: 1m 25s	remaining: 44.7s
328:	learn: 0.2099424	total: 1m 25s	remaining: 44.4s
329:	learn: 0.2098994	total: 1m 25s	remaining: 44.2s
330:	learn: 0.2098421	total: 1m 25s	remaining: 43.9s
331:	learn: 0.2097412	total: 1m 26s	remaining: 43.6s
332:	learn: 0.2096721	total: 1m 26s	remaining: 43.4s
333:	learn: 0.2096535	total: 1m 26s	remaining: 43.1s
334:	learn: 0.2096255	total: 1m 27s	remaining: 42.9s
335:	learn: 0.2095441	total: 1m 27s	remaining: 42.6s
336:	learn: 0.2094719	total: 1m 27s	remaining: 42.3s
337:	learn: 0.2094271	total: 1m 27s	remaining: 42.1s
338:	learn: 0.2093900	total: 1m 28s	remaining: 41.8s
339:	learn: 0.2093645	total: 1m 28s	remaining: 41.5s
340:	learn: 0.2093386	total: 1m 28s	remaining: 41.3s
341:	learn: 0.2093177	total: 1m 28s	remaining: 41s
342:	learn: 0.2092776	total: 1m 29s	remaining: 40.8s
343:	learn: 0.2091773	total: 1m 29s	remaining: 40.5s
344:	learn: 0.2091724	total: 1m 29s	remaining: 40.3s
345:	learn: 0.2091128	total: 1m 29s	remaining: 40s
346:	learn: 0.2090617	total: 1m 30s	remaining: 39.7s
347:	learn: 0.2090278	total: 1m 30s	remaining: 39.5s
348:	learn: 0.2089497	total: 1m 30s	remaining: 39.2s
349:	learn: 0.2088584	total: 1m 30s	remaining: 39s
350:	learn: 0.2088089	total: 1m 31s	remaining: 38.7s
351:	learn: 0.2087314	total: 1m 31s	remaining: 38.4s
352:	learn: 0.2086495	total: 1m 31s	remaining: 38.2s
353:	learn: 0.2086021	total: 1m 31s	remaining: 37.9s
354:	learn: 0.2085540	total: 1m 32s	remaining: 37.6s
355:	learn: 0.2085246	total: 1m 32s	remaining: 37.4s
356:	learn: 0.2085054	total: 1m 32s	remaining: 37.2s
357:	learn: 0.2084340	total: 1m 33s	remaining: 36.9s
358:	learn: 0.2084007	total: 1m 33s	remaining: 36.7s
359:	learn: 0.2083595	total: 1m 33s	remaining: 36.4s
360:	learn: 0.2083152	total: 1m 33s	remaining: 36.1s
361:	learn: 0.2082579	total: 1m 34s	remaining: 35.9s
362:	learn: 0.2082064	total: 1m 34s	remaining: 35.6s
363:	learn: 0.2080475	total: 1m 34s	remaining: 35.4s
364:	learn: 0.2079404	total: 1m 34s	remaining: 35.1s

365:	learn: 0.2078441	total: 1m 35s	remaining: 34.9s
366:	learn: 0.2077835	total: 1m 35s	remaining: 34.6s
367:	learn: 0.2077395	total: 1m 35s	remaining: 34.3s
368:	learn: 0.2076143	total: 1m 36s	remaining: 34.1s
369:	learn: 0.2075427	total: 1m 36s	remaining: 33.8s
370:	learn: 0.2074803	total: 1m 36s	remaining: 33.6s
371:	learn: 0.2074646	total: 1m 36s	remaining: 33.3s
372:	learn: 0.2074569	total: 1m 36s	remaining: 33s
373:	learn: 0.2073887	total: 1m 37s	remaining: 32.8s
374:	learn: 0.2073654	total: 1m 37s	remaining: 32.5s
375:	learn: 0.2073233	total: 1m 37s	remaining: 32.2s
376:	learn: 0.2072462	total: 1m 37s	remaining: 32s
377:	learn: 0.2071009	total: 1m 38s	remaining: 31.7s
378:	learn: 0.2070224	total: 1m 38s	remaining: 31.4s
379:	learn: 0.2069188	total: 1m 38s	remaining: 31.2s
380:	learn: 0.2068592	total: 1m 38s	remaining: 30.9s
381:	learn: 0.2067937	total: 1m 39s	remaining: 30.6s
382:	learn: 0.2067744	total: 1m 39s	remaining: 30.4s
383:	learn: 0.2066836	total: 1m 39s	remaining: 30.1s
384:	learn: 0.2066156	total: 1m 39s	remaining: 29.8s
385:	learn: 0.2066030	total: 1m 40s	remaining: 29.6s
386:	learn: 0.2065540	total: 1m 40s	remaining: 29.3s
387:	learn: 0.2065215	total: 1m 40s	remaining: 29s
388:	learn: 0.2064425	total: 1m 40s	remaining: 28.8s
389:	learn: 0.2063965	total: 1m 41s	remaining: 28.5s
390:	learn: 0.2063418	total: 1m 41s	remaining: 28.2s
391:	learn: 0.2063198	total: 1m 41s	remaining: 28s
392:	learn: 0.2062811	total: 1m 41s	remaining: 27.7s
393:	learn: 0.2062328	total: 1m 42s	remaining: 27.5s
394:	learn: 0.2061456	total: 1m 42s	remaining: 27.2s
395:	learn: 0.2061014	total: 1m 42s	remaining: 26.9s
396:	learn: 0.2060528	total: 1m 42s	remaining: 26.7s
397:	learn: 0.2060110	total: 1m 43s	remaining: 26.4s
398:	learn: 0.2059827	total: 1m 43s	remaining: 26.2s
399:	learn: 0.2059390	total: 1m 43s	remaining: 25.9s
400:	learn: 0.2058858	total: 1m 43s	remaining: 25.7s
401:	learn: 0.2058540	total: 1m 44s	remaining: 25.4s
402:	learn: 0.2058073	total: 1m 44s	remaining: 25.1s
403:	learn: 0.2057242	total: 1m 44s	remaining: 24.9s
404:	learn: 0.2056591	total: 1m 45s	remaining: 24.6s
405:	learn: 0.2055034	total: 1m 45s	remaining: 24.4s
406:	learn: 0.2054671	total: 1m 45s	remaining: 24.1s
407:	learn: 0.2053925	total: 1m 45s	remaining: 23.9s
408:	learn: 0.2052994	total: 1m 46s	remaining: 23.6s
409:	learn: 0.2052694	total: 1m 46s	remaining: 23.4s
410:	learn: 0.2051879	total: 1m 46s	remaining: 23.1s
411:	learn: 0.2051036	total: 1m 46s	remaining: 22.9s
412:	learn: 0.2050570	total: 1m 47s	remaining: 22.6s

413:	learn: 0.2050049	total: 1m 47s	remaining: 22.3s
414:	learn: 0.2049819	total: 1m 47s	remaining: 22.1s
415:	learn: 0.2049271	total: 1m 48s	remaining: 21.8s
416:	learn: 0.2048226	total: 1m 48s	remaining: 21.6s
417:	learn: 0.2047657	total: 1m 48s	remaining: 21.3s
418:	learn: 0.2047396	total: 1m 48s	remaining: 21.1s
419:	learn: 0.2046661	total: 1m 49s	remaining: 20.8s
420:	learn: 0.2046281	total: 1m 49s	remaining: 20.5s
421:	learn: 0.2045965	total: 1m 49s	remaining: 20.3s
422:	learn: 0.2045683	total: 1m 49s	remaining: 20s
423:	learn: 0.2044800	total: 1m 50s	remaining: 19.8s
424:	learn: 0.2043938	total: 1m 50s	remaining: 19.5s
425:	learn: 0.2043470	total: 1m 50s	remaining: 19.2s
426:	learn: 0.2042917	total: 1m 51s	remaining: 19s
427:	learn: 0.2040658	total: 1m 51s	remaining: 18.7s
428:	learn: 0.2039970	total: 1m 51s	remaining: 18.5s
429:	learn: 0.2038937	total: 1m 51s	remaining: 18.2s
430:	learn: 0.2038752	total: 1m 52s	remaining: 17.9s
431:	learn: 0.2038395	total: 1m 52s	remaining: 17.7s
432:	learn: 0.2036963	total: 1m 52s	remaining: 17.4s
433:	learn: 0.2036707	total: 1m 52s	remaining: 17.2s
434:	learn: 0.2036088	total: 1m 53s	remaining: 16.9s
435:	learn: 0.2035821	total: 1m 53s	remaining: 16.6s
436:	learn: 0.2035437	total: 1m 53s	remaining: 16.4s
437:	learn: 0.2035156	total: 1m 53s	remaining: 16.1s
438:	learn: 0.2034738	total: 1m 54s	remaining: 15.9s
439:	learn: 0.2033928	total: 1m 54s	remaining: 15.6s
440:	learn: 0.2033358	total: 1m 54s	remaining: 15.3s
441:	learn: 0.2032699	total: 1m 54s	remaining: 15.1s
442:	learn: 0.2031799	total: 1m 55s	remaining: 14.8s
443:	learn: 0.2030957	total: 1m 55s	remaining: 14.5s
444:	learn: 0.2030291	total: 1m 55s	remaining: 14.3s
445:	learn: 0.2029846	total: 1m 55s	remaining: 14s
446:	learn: 0.2029431	total: 1m 55s	remaining: 13.8s
447:	learn: 0.2029098	total: 1m 56s	remaining: 13.5s
448:	learn: 0.2028687	total: 1m 56s	remaining: 13.2s
449:	learn: 0.2028580	total: 1m 56s	remaining: 13s
450:	learn: 0.2027621	total: 1m 56s	remaining: 12.7s
451:	learn: 0.2027303	total: 1m 57s	remaining: 12.4s
452:	learn: 0.2026977	total: 1m 57s	remaining: 12.2s
453:	learn: 0.2026732	total: 1m 57s	remaining: 11.9s
454:	learn: 0.2026421	total: 1m 57s	remaining: 11.6s
455:	learn: 0.2025681	total: 1m 57s	remaining: 11.4s
456:	learn: 0.2025328	total: 1m 57s	remaining: 11.1s
457:	learn: 0.2024879	total: 1m 58s	remaining: 10.8s
458:	learn: 0.2024492	total: 1m 58s	remaining: 10.6s
459:	learn: 0.2023341	total: 1m 58s	remaining: 10.3s
460:	learn: 0.2022939	total: 1m 58s	remaining: 10s

461:	learn: 0.2022336	total: 1m 59s	remaining: 9.79s
462:	learn: 0.2021808	total: 1m 59s	remaining: 9.53s
463:	learn: 0.2021569	total: 1m 59s	remaining: 9.27s
464:	learn: 0.2021284	total: 1m 59s	remaining: 9.01s
465:	learn: 0.2020713	total: 1m 59s	remaining: 8.75s
466:	learn: 0.2020261	total: 2m	remaining: 8.49s
467:	learn: 0.2019567	total: 2m	remaining: 8.24s
468:	learn: 0.2018667	total: 2m	remaining: 7.98s
469:	learn: 0.2017664	total: 2m 1s	remaining: 7.72s
470:	learn: 0.2017206	total: 2m 1s	remaining: 7.47s
471:	learn: 0.2016717	total: 2m 1s	remaining: 7.21s
472:	learn: 0.2015970	total: 2m 1s	remaining: 6.95s
473:	learn: 0.2015788	total: 2m 2s	remaining: 6.7s
474:	learn: 0.2015435	total: 2m 2s	remaining: 6.44s
475:	learn: 0.2014592	total: 2m 2s	remaining: 6.18s
476:	learn: 0.2014236	total: 2m 2s	remaining: 5.93s
477:	learn: 0.2013691	total: 2m 3s	remaining: 5.67s
478:	learn: 0.2013099	total: 2m 3s	remaining: 5.41s
479:	learn: 0.2012822	total: 2m 3s	remaining: 5.15s
480:	learn: 0.2012535	total: 2m 3s	remaining: 4.89s
481:	learn: 0.2012098	total: 2m 4s	remaining: 4.64s
482:	learn: 0.2011450	total: 2m 4s	remaining: 4.38s
483:	learn: 0.2010703	total: 2m 4s	remaining: 4.12s
484:	learn: 0.2010153	total: 2m 5s	remaining: 3.87s
485:	learn: 0.2009738	total: 2m 5s	remaining: 3.61s
486:	learn: 0.2009087	total: 2m 5s	remaining: 3.35s
487:	learn: 0.2008677	total: 2m 5s	remaining: 3.09s
488:	learn: 0.2008154	total: 2m 6s	remaining: 2.84s
489:	learn: 0.2007501	total: 2m 6s	remaining: 2.58s
490:	learn: 0.2007091	total: 2m 6s	remaining: 2.32s
491:	learn: 0.2006919	total: 2m 6s	remaining: 2.06s
492:	learn: 0.2006782	total: 2m 7s	remaining: 1.8s
493:	learn: 0.2006449	total: 2m 7s	remaining: 1.55s
494:	learn: 0.2005742	total: 2m 7s	remaining: 1.29s
495:	learn: 0.2005406	total: 2m 7s	remaining: 1.03s
496:	learn: 0.2004802	total: 2m 8s	remaining: 773ms
497:	learn: 0.2003992	total: 2m 8s	remaining: 516ms
498:	learn: 0.2003568	total: 2m 8s	remaining: 258ms
499:	learn: 0.2003377	total: 2m 8s	remaining: 0us
Learning rate set to 0.173965			
0:	learn: 0.9718769	total: 262ms	remaining: 2m 10s
1:	learn: 0.8902658	total: 483ms	remaining: 2m
2:	learn: 0.8308291	total: 741ms	remaining: 2m 2s
3:	learn: 0.7829120	total: 1s	remaining: 2m 4s
4:	learn: 0.7090066	total: 1.2s	remaining: 1m 59s
5:	learn: 0.6574654	total: 1.38s	remaining: 1m 53s
6:	learn: 0.5914973	total: 1.56s	remaining: 1m 49s
7:	learn: 0.5344921	total: 1.76s	remaining: 1m 48s

8:	learn: 0.4928213	total: 1.96s	remaining: 1m 46s
9:	learn: 0.4619227	total: 2.15s	remaining: 1m 45s
10:	learn: 0.4362160	total: 2.32s	remaining: 1m 43s
11:	learn: 0.4135384	total: 2.5s	remaining: 1m 41s
12:	learn: 0.3955062	total: 2.68s	remaining: 1m 40s
13:	learn: 0.3714745	total: 2.88s	remaining: 1m 40s
14:	learn: 0.3608219	total: 3.06s	remaining: 1m 39s
15:	learn: 0.3431085	total: 3.26s	remaining: 1m 38s
16:	learn: 0.3350065	total: 3.45s	remaining: 1m 38s
17:	learn: 0.3223072	total: 3.68s	remaining: 1m 38s
18:	learn: 0.3112081	total: 3.96s	remaining: 1m 40s
19:	learn: 0.3093090	total: 4.23s	remaining: 1m 41s
20:	learn: 0.3007027	total: 4.55s	remaining: 1m 43s
21:	learn: 0.2992153	total: 4.83s	remaining: 1m 44s
22:	learn: 0.2917989	total: 5.09s	remaining: 1m 45s
23:	learn: 0.2870457	total: 5.36s	remaining: 1m 46s
24:	learn: 0.2809252	total: 5.62s	remaining: 1m 46s
25:	learn: 0.2791902	total: 5.87s	remaining: 1m 47s
26:	learn: 0.2761473	total: 6.15s	remaining: 1m 47s
27:	learn: 0.2716813	total: 6.42s	remaining: 1m 48s
28:	learn: 0.2706400	total: 6.68s	remaining: 1m 48s
29:	learn: 0.2702805	total: 6.94s	remaining: 1m 48s
30:	learn: 0.2667842	total: 7.22s	remaining: 1m 49s
31:	learn: 0.2661541	total: 7.51s	remaining: 1m 49s
32:	learn: 0.2634512	total: 7.78s	remaining: 1m 50s
33:	learn: 0.2608609	total: 8.05s	remaining: 1m 50s
34:	learn: 0.2591434	total: 8.34s	remaining: 1m 50s
35:	learn: 0.2586105	total: 8.6s	remaining: 1m 50s
36:	learn: 0.2583592	total: 8.86s	remaining: 1m 50s
37:	learn: 0.2577305	total: 9.12s	remaining: 1m 50s
38:	learn: 0.2574949	total: 9.37s	remaining: 1m 50s
39:	learn: 0.2568854	total: 9.67s	remaining: 1m 51s
40:	learn: 0.2563702	total: 9.91s	remaining: 1m 51s
41:	learn: 0.2559229	total: 10.2s	remaining: 1m 51s
42:	learn: 0.2553915	total: 10.5s	remaining: 1m 51s
43:	learn: 0.2548716	total: 10.8s	remaining: 1m 51s
44:	learn: 0.2528471	total: 11s	remaining: 1m 51s
45:	learn: 0.2524157	total: 11.3s	remaining: 1m 51s
46:	learn: 0.2520746	total: 11.6s	remaining: 1m 51s
47:	learn: 0.2516817	total: 11.9s	remaining: 1m 51s
48:	learn: 0.2508812	total: 12.2s	remaining: 1m 52s
49:	learn: 0.2507890	total: 12.5s	remaining: 1m 52s
50:	learn: 0.2506591	total: 12.7s	remaining: 1m 52s
51:	learn: 0.2504687	total: 13s	remaining: 1m 52s
52:	learn: 0.2503456	total: 13.3s	remaining: 1m 52s
53:	learn: 0.2503233	total: 13.6s	remaining: 1m 52s
54:	learn: 0.2501744	total: 13.9s	remaining: 1m 52s
55:	learn: 0.2476040	total: 14.1s	remaining: 1m 52s

56:	learn: 0.2472773	total: 14.4s	remaining: 1m 51s
57:	learn: 0.2468938	total: 14.7s	remaining: 1m 51s
58:	learn: 0.2465331	total: 14.9s	remaining: 1m 51s
59:	learn: 0.2461659	total: 15.2s	remaining: 1m 51s
60:	learn: 0.2450283	total: 15.4s	remaining: 1m 50s
61:	learn: 0.2448689	total: 15.7s	remaining: 1m 50s
62:	learn: 0.2445386	total: 15.9s	remaining: 1m 50s
63:	learn: 0.2443756	total: 16.1s	remaining: 1m 50s
64:	learn: 0.2439490	total: 16.4s	remaining: 1m 49s
65:	learn: 0.2437982	total: 16.6s	remaining: 1m 49s
66:	learn: 0.2436209	total: 16.9s	remaining: 1m 49s
67:	learn: 0.2432322	total: 17.1s	remaining: 1m 48s
68:	learn: 0.2431512	total: 17.4s	remaining: 1m 48s
69:	learn: 0.2428085	total: 17.7s	remaining: 1m 48s
70:	learn: 0.2426201	total: 17.9s	remaining: 1m 48s
71:	learn: 0.2422590	total: 18.2s	remaining: 1m 48s
72:	learn: 0.2399643	total: 18.4s	remaining: 1m 47s
73:	learn: 0.2395937	total: 18.7s	remaining: 1m 47s
74:	learn: 0.2385900	total: 18.9s	remaining: 1m 47s
75:	learn: 0.2371953	total: 19.2s	remaining: 1m 46s
76:	learn: 0.2370543	total: 19.4s	remaining: 1m 46s
77:	learn: 0.2365612	total: 19.6s	remaining: 1m 46s
78:	learn: 0.2364986	total: 19.9s	remaining: 1m 45s
79:	learn: 0.2352634	total: 20.1s	remaining: 1m 45s
80:	learn: 0.2351283	total: 20.4s	remaining: 1m 45s
81:	learn: 0.2349323	total: 20.7s	remaining: 1m 45s
82:	learn: 0.2344916	total: 20.9s	remaining: 1m 45s
83:	learn: 0.2343427	total: 21.2s	remaining: 1m 44s
84:	learn: 0.2342063	total: 21.4s	remaining: 1m 44s
85:	learn: 0.2341601	total: 21.7s	remaining: 1m 44s
86:	learn: 0.2339888	total: 22s	remaining: 1m 44s
87:	learn: 0.2337860	total: 22.2s	remaining: 1m 43s
88:	learn: 0.2336535	total: 22.5s	remaining: 1m 43s
89:	learn: 0.2335568	total: 22.7s	remaining: 1m 43s
90:	learn: 0.2334841	total: 23s	remaining: 1m 43s
91:	learn: 0.2334478	total: 23.3s	remaining: 1m 43s
92:	learn: 0.2319048	total: 23.5s	remaining: 1m 42s
93:	learn: 0.2318742	total: 23.8s	remaining: 1m 42s
94:	learn: 0.2317748	total: 24.1s	remaining: 1m 42s
95:	learn: 0.2317153	total: 24.3s	remaining: 1m 42s
96:	learn: 0.2313844	total: 24.5s	remaining: 1m 41s
97:	learn: 0.2313602	total: 24.8s	remaining: 1m 41s
98:	learn: 0.2310649	total: 25.1s	remaining: 1m 41s
99:	learn: 0.2309171	total: 25.3s	remaining: 1m 41s
100:	learn: 0.2307507	total: 25.6s	remaining: 1m 41s
101:	learn: 0.2299206	total: 25.9s	remaining: 1m 41s
102:	learn: 0.2298230	total: 26.2s	remaining: 1m 40s
103:	learn: 0.2296554	total: 26.5s	remaining: 1m 40s

104:	learn: 0.2295711	total: 26.7s	remaining: 1m 40s
105:	learn: 0.2294595	total: 27s	remaining: 1m 40s
106:	learn: 0.2293597	total: 27.3s	remaining: 1m 40s
107:	learn: 0.2293354	total: 27.5s	remaining: 1m 39s
108:	learn: 0.2291453	total: 27.8s	remaining: 1m 39s
109:	learn: 0.2289945	total: 28s	remaining: 1m 39s
110:	learn: 0.2282779	total: 28.3s	remaining: 1m 39s
111:	learn: 0.2282335	total: 28.5s	remaining: 1m 38s
112:	learn: 0.2281754	total: 28.7s	remaining: 1m 38s
113:	learn: 0.2280792	total: 29s	remaining: 1m 38s
114:	learn: 0.2280093	total: 29.3s	remaining: 1m 37s
115:	learn: 0.2279174	total: 29.5s	remaining: 1m 37s
116:	learn: 0.2278337	total: 29.8s	remaining: 1m 37s
117:	learn: 0.2277129	total: 30.1s	remaining: 1m 37s
118:	learn: 0.2276558	total: 30.4s	remaining: 1m 37s
119:	learn: 0.2276055	total: 30.6s	remaining: 1m 36s
120:	learn: 0.2273797	total: 30.9s	remaining: 1m 36s
121:	learn: 0.2272621	total: 31.1s	remaining: 1m 36s
122:	learn: 0.2271599	total: 31.4s	remaining: 1m 36s
123:	learn: 0.2270719	total: 31.6s	remaining: 1m 35s
124:	learn: 0.2270164	total: 31.9s	remaining: 1m 35s
125:	learn: 0.2267789	total: 32.1s	remaining: 1m 35s
126:	learn: 0.2267333	total: 32.4s	remaining: 1m 35s
127:	learn: 0.2261674	total: 32.7s	remaining: 1m 35s
128:	learn: 0.2260580	total: 33s	remaining: 1m 34s
129:	learn: 0.2259190	total: 33.2s	remaining: 1m 34s
130:	learn: 0.2257556	total: 33.4s	remaining: 1m 34s
131:	learn: 0.2256858	total: 33.7s	remaining: 1m 33s
132:	learn: 0.2256210	total: 33.9s	remaining: 1m 33s
133:	learn: 0.2255650	total: 34.1s	remaining: 1m 33s
134:	learn: 0.2255137	total: 34.4s	remaining: 1m 32s
135:	learn: 0.2253802	total: 34.6s	remaining: 1m 32s
136:	learn: 0.2253088	total: 34.8s	remaining: 1m 32s
137:	learn: 0.2252355	total: 35.1s	remaining: 1m 32s
138:	learn: 0.2251648	total: 35.3s	remaining: 1m 31s
139:	learn: 0.2250621	total: 35.5s	remaining: 1m 31s
140:	learn: 0.2245385	total: 35.8s	remaining: 1m 31s
141:	learn: 0.2245022	total: 36s	remaining: 1m 30s
142:	learn: 0.2244793	total: 36.2s	remaining: 1m 30s
143:	learn: 0.2243482	total: 36.5s	remaining: 1m 30s
144:	learn: 0.2242394	total: 36.8s	remaining: 1m 30s
145:	learn: 0.2241523	total: 37s	remaining: 1m 29s
146:	learn: 0.2241085	total: 37.3s	remaining: 1m 29s
147:	learn: 0.2240033	total: 37.6s	remaining: 1m 29s
148:	learn: 0.2239678	total: 37.8s	remaining: 1m 29s
149:	learn: 0.2238552	total: 38.1s	remaining: 1m 28s
150:	learn: 0.2238418	total: 38.4s	remaining: 1m 28s
151:	learn: 0.2238072	total: 38.7s	remaining: 1m 28s

152:	learn: 0.2237062	total: 38.9s	remaining: 1m 28s
153:	learn: 0.2235614	total: 39.2s	remaining: 1m 27s
154:	learn: 0.2234925	total: 39.4s	remaining: 1m 27s
155:	learn: 0.2234317	total: 39.7s	remaining: 1m 27s
156:	learn: 0.2232837	total: 39.9s	remaining: 1m 27s
157:	learn: 0.2232602	total: 40.2s	remaining: 1m 27s
158:	learn: 0.2231110	total: 40.5s	remaining: 1m 26s
159:	learn: 0.2227379	total: 40.7s	remaining: 1m 26s
160:	learn: 0.2225739	total: 41s	remaining: 1m 26s
161:	learn: 0.2224211	total: 41.3s	remaining: 1m 26s
162:	learn: 0.2223788	total: 41.5s	remaining: 1m 25s
163:	learn: 0.2223190	total: 41.8s	remaining: 1m 25s
164:	learn: 0.2221660	total: 42s	remaining: 1m 25s
165:	learn: 0.2220358	total: 42.3s	remaining: 1m 25s
166:	learn: 0.2218716	total: 42.5s	remaining: 1m 24s
167:	learn: 0.2217120	total: 42.8s	remaining: 1m 24s
168:	learn: 0.2216878	total: 43.1s	remaining: 1m 24s
169:	learn: 0.2216385	total: 43.3s	remaining: 1m 24s
170:	learn: 0.2215860	total: 43.6s	remaining: 1m 23s
171:	learn: 0.2212178	total: 43.9s	remaining: 1m 23s
172:	learn: 0.2206920	total: 44.1s	remaining: 1m 23s
173:	learn: 0.2206345	total: 44.4s	remaining: 1m 23s
174:	learn: 0.2205891	total: 44.7s	remaining: 1m 23s
175:	learn: 0.2204942	total: 45s	remaining: 1m 22s
176:	learn: 0.2204500	total: 45.2s	remaining: 1m 22s
177:	learn: 0.2203762	total: 45.5s	remaining: 1m 22s
178:	learn: 0.2203136	total: 45.7s	remaining: 1m 22s
179:	learn: 0.2202109	total: 46s	remaining: 1m 21s
180:	learn: 0.2200956	total: 46.3s	remaining: 1m 21s
181:	learn: 0.2200396	total: 46.5s	remaining: 1m 21s
182:	learn: 0.2199138	total: 46.8s	remaining: 1m 21s
183:	learn: 0.2198256	total: 47s	remaining: 1m 20s
184:	learn: 0.2197582	total: 47.2s	remaining: 1m 20s
185:	learn: 0.2197341	total: 47.4s	remaining: 1m 19s
186:	learn: 0.2196427	total: 47.6s	remaining: 1m 19s
187:	learn: 0.2195730	total: 47.9s	remaining: 1m 19s
188:	learn: 0.2194487	total: 48.1s	remaining: 1m 19s
189:	learn: 0.2193453	total: 48.3s	remaining: 1m 18s
190:	learn: 0.2193262	total: 48.6s	remaining: 1m 18s
191:	learn: 0.2192144	total: 48.8s	remaining: 1m 18s
192:	learn: 0.2188580	total: 49.1s	remaining: 1m 18s
193:	learn: 0.2187259	total: 49.3s	remaining: 1m 17s
194:	learn: 0.2187094	total: 49.6s	remaining: 1m 17s
195:	learn: 0.2186531	total: 49.8s	remaining: 1m 17s
196:	learn: 0.2186335	total: 50.1s	remaining: 1m 16s
197:	learn: 0.2185415	total: 50.3s	remaining: 1m 16s
198:	learn: 0.2184608	total: 50.5s	remaining: 1m 16s
199:	learn: 0.2184294	total: 50.7s	remaining: 1m 16s

200:	learn: 0.2183539	total: 51s	remaining: 1m 15s
201:	learn: 0.2183042	total: 51.2s	remaining: 1m 15s
202:	learn: 0.2181888	total: 51.5s	remaining: 1m 15s
203:	learn: 0.2180609	total: 51.7s	remaining: 1m 15s
204:	learn: 0.2179360	total: 52s	remaining: 1m 14s
205:	learn: 0.2178489	total: 52.2s	remaining: 1m 14s
206:	learn: 0.2177632	total: 52.5s	remaining: 1m 14s
207:	learn: 0.2177316	total: 52.7s	remaining: 1m 14s
208:	learn: 0.2177096	total: 53s	remaining: 1m 13s
209:	learn: 0.2176802	total: 53.2s	remaining: 1m 13s
210:	learn: 0.2176156	total: 53.5s	remaining: 1m 13s
211:	learn: 0.2174517	total: 53.8s	remaining: 1m 13s
212:	learn: 0.2173914	total: 54s	remaining: 1m 12s
213:	learn: 0.2172740	total: 54.3s	remaining: 1m 12s
214:	learn: 0.2171745	total: 54.6s	remaining: 1m 12s
215:	learn: 0.2171108	total: 54.9s	remaining: 1m 12s
216:	learn: 0.2170385	total: 55.1s	remaining: 1m 11s
217:	learn: 0.2170269	total: 55.4s	remaining: 1m 11s
218:	learn: 0.2169792	total: 55.7s	remaining: 1m 11s
219:	learn: 0.2169218	total: 55.9s	remaining: 1m 11s
220:	learn: 0.2168846	total: 56.2s	remaining: 1m 10s
221:	learn: 0.2167834	total: 56.5s	remaining: 1m 10s
222:	learn: 0.2167307	total: 56.7s	remaining: 1m 10s
223:	learn: 0.2162765	total: 57s	remaining: 1m 10s
224:	learn: 0.2161356	total: 57.3s	remaining: 1m 10s
225:	learn: 0.2161121	total: 57.5s	remaining: 1m 9s
226:	learn: 0.2160791	total: 57.8s	remaining: 1m 9s
227:	learn: 0.2160543	total: 58.1s	remaining: 1m 9s
228:	learn: 0.2159774	total: 58.4s	remaining: 1m 9s
229:	learn: 0.2159064	total: 58.6s	remaining: 1m 8s
230:	learn: 0.2158175	total: 58.9s	remaining: 1m 8s
231:	learn: 0.2156759	total: 59.2s	remaining: 1m 8s
232:	learn: 0.2156123	total: 59.4s	remaining: 1m 8s
233:	learn: 0.2154969	total: 59.7s	remaining: 1m 7s
234:	learn: 0.2154519	total: 60s	remaining: 1m 7s
235:	learn: 0.2153923	total: 1m	remaining: 1m 7s
236:	learn: 0.2152429	total: 1m	remaining: 1m 7s
237:	learn: 0.2151777	total: 1m	remaining: 1m 6s
238:	learn: 0.2151086	total: 1m 1s	remaining: 1m 6s
239:	learn: 0.2149791	total: 1m 1s	remaining: 1m 6s
240:	learn: 0.2148813	total: 1m 1s	remaining: 1m 6s
241:	learn: 0.2148048	total: 1m 1s	remaining: 1m 5s
242:	learn: 0.2147329	total: 1m 2s	remaining: 1m 5s
243:	learn: 0.2145877	total: 1m 2s	remaining: 1m 5s
244:	learn: 0.2145122	total: 1m 2s	remaining: 1m 5s
245:	learn: 0.2144902	total: 1m 2s	remaining: 1m 5s
246:	learn: 0.2143875	total: 1m 3s	remaining: 1m 4s
247:	learn: 0.2143208	total: 1m 3s	remaining: 1m 4s

248:	learn: 0.2142907	total: 1m 3s	remaining: 1m 4s
249:	learn: 0.2142398	total: 1m 3s	remaining: 1m 3s
250:	learn: 0.2141590	total: 1m 4s	remaining: 1m 3s
251:	learn: 0.2141150	total: 1m 4s	remaining: 1m 3s
252:	learn: 0.2140266	total: 1m 4s	remaining: 1m 3s
253:	learn: 0.2139476	total: 1m 4s	remaining: 1m 2s
254:	learn: 0.2138877	total: 1m 5s	remaining: 1m 2s
255:	learn: 0.2137987	total: 1m 5s	remaining: 1m 2s
256:	learn: 0.2137237	total: 1m 5s	remaining: 1m 2s
257:	learn: 0.2136273	total: 1m 5s	remaining: 1m 1s
258:	learn: 0.2135603	total: 1m 6s	remaining: 1m 1s
259:	learn: 0.2134315	total: 1m 6s	remaining: 1m 1s
260:	learn: 0.2133849	total: 1m 6s	remaining: 1m
261:	learn: 0.2133517	total: 1m 6s	remaining: 1m
262:	learn: 0.2133116	total: 1m 7s	remaining: 1m
263:	learn: 0.2132971	total: 1m 7s	remaining: 1m
264:	learn: 0.2132208	total: 1m 7s	remaining: 59.9s
265:	learn: 0.2132000	total: 1m 7s	remaining: 59.6s
266:	learn: 0.2131095	total: 1m 8s	remaining: 59.3s
267:	learn: 0.2128740	total: 1m 8s	remaining: 59.1s
268:	learn: 0.2127412	total: 1m 8s	remaining: 58.9s
269:	learn: 0.2127120	total: 1m 8s	remaining: 58.6s
270:	learn: 0.2125371	total: 1m 9s	remaining: 58.4s
271:	learn: 0.2124371	total: 1m 9s	remaining: 58.2s
272:	learn: 0.2122852	total: 1m 9s	remaining: 58s
273:	learn: 0.2122168	total: 1m 9s	remaining: 57.7s
274:	learn: 0.2120879	total: 1m 10s	remaining: 57.5s
275:	learn: 0.2119984	total: 1m 10s	remaining: 57.3s
276:	learn: 0.2119193	total: 1m 10s	remaining: 57s
277:	learn: 0.2118667	total: 1m 11s	remaining: 56.7s
278:	learn: 0.2118054	total: 1m 11s	remaining: 56.5s
279:	learn: 0.2117708	total: 1m 11s	remaining: 56.2s
280:	learn: 0.2117357	total: 1m 11s	remaining: 56s
281:	learn: 0.2116799	total: 1m 12s	remaining: 55.7s
282:	learn: 0.2115737	total: 1m 12s	remaining: 55.5s
283:	learn: 0.2115000	total: 1m 12s	remaining: 55.2s
284:	learn: 0.2114279	total: 1m 12s	remaining: 54.9s
285:	learn: 0.2113464	total: 1m 13s	remaining: 54.7s
286:	learn: 0.2112388	total: 1m 13s	remaining: 54.4s
287:	learn: 0.2112201	total: 1m 13s	remaining: 54.2s
288:	learn: 0.2111376	total: 1m 13s	remaining: 54s
289:	learn: 0.2110933	total: 1m 14s	remaining: 53.7s
290:	learn: 0.2110643	total: 1m 14s	remaining: 53.5s
291:	learn: 0.2109869	total: 1m 14s	remaining: 53.2s
292:	learn: 0.2109318	total: 1m 15s	remaining: 53s
293:	learn: 0.2109166	total: 1m 15s	remaining: 52.7s
294:	learn: 0.2108505	total: 1m 15s	remaining: 52.5s
295:	learn: 0.2108093	total: 1m 15s	remaining: 52.2s

296:	learn: 0.2107292	total: 1m 15s	remaining: 51.9s
297:	learn: 0.2106829	total: 1m 16s	remaining: 51.7s
298:	learn: 0.2105518	total: 1m 16s	remaining: 51.4s
299:	learn: 0.2104999	total: 1m 16s	remaining: 51.2s
300:	learn: 0.2104345	total: 1m 17s	remaining: 50.9s
301:	learn: 0.2103612	total: 1m 17s	remaining: 50.7s
302:	learn: 0.2102946	total: 1m 17s	remaining: 50.5s
303:	learn: 0.2102097	total: 1m 17s	remaining: 50.2s
304:	learn: 0.2101479	total: 1m 18s	remaining: 49.9s
305:	learn: 0.2101316	total: 1m 18s	remaining: 49.7s
306:	learn: 0.2100580	total: 1m 18s	remaining: 49.4s
307:	learn: 0.2099697	total: 1m 18s	remaining: 49.1s
308:	learn: 0.2099162	total: 1m 19s	remaining: 48.9s
309:	learn: 0.2098999	total: 1m 19s	remaining: 48.6s
310:	learn: 0.2098795	total: 1m 19s	remaining: 48.3s
311:	learn: 0.2097999	total: 1m 19s	remaining: 48.1s
312:	learn: 0.2097224	total: 1m 20s	remaining: 47.8s
313:	learn: 0.2096729	total: 1m 20s	remaining: 47.5s
314:	learn: 0.2095002	total: 1m 20s	remaining: 47.3s
315:	learn: 0.2094425	total: 1m 20s	remaining: 47s
316:	learn: 0.2094169	total: 1m 20s	remaining: 46.7s
317:	learn: 0.2093628	total: 1m 21s	remaining: 46.4s
318:	learn: 0.2093162	total: 1m 21s	remaining: 46.2s
319:	learn: 0.2092615	total: 1m 21s	remaining: 45.9s
320:	learn: 0.2091991	total: 1m 21s	remaining: 45.7s
321:	learn: 0.2091474	total: 1m 22s	remaining: 45.4s
322:	learn: 0.2090862	total: 1m 22s	remaining: 45.1s
323:	learn: 0.2090709	total: 1m 22s	remaining: 44.8s
324:	learn: 0.2083469	total: 1m 22s	remaining: 44.6s
325:	learn: 0.2082685	total: 1m 23s	remaining: 44.3s
326:	learn: 0.2081539	total: 1m 23s	remaining: 44.1s
327:	learn: 0.2080722	total: 1m 23s	remaining: 43.8s
328:	learn: 0.2079751	total: 1m 23s	remaining: 43.6s
329:	learn: 0.2078675	total: 1m 24s	remaining: 43.3s
330:	learn: 0.2078360	total: 1m 24s	remaining: 43.1s
331:	learn: 0.2077622	total: 1m 24s	remaining: 42.8s
332:	learn: 0.2077398	total: 1m 24s	remaining: 42.6s
333:	learn: 0.2077027	total: 1m 25s	remaining: 42.3s
334:	learn: 0.2076890	total: 1m 25s	remaining: 42.1s
335:	learn: 0.2076339	total: 1m 25s	remaining: 41.8s
336:	learn: 0.2075738	total: 1m 25s	remaining: 41.6s
337:	learn: 0.2075539	total: 1m 26s	remaining: 41.3s
338:	learn: 0.2074449	total: 1m 26s	remaining: 41.1s
339:	learn: 0.2074276	total: 1m 26s	remaining: 40.8s
340:	learn: 0.2073667	total: 1m 26s	remaining: 40.6s
341:	learn: 0.2072308	total: 1m 27s	remaining: 40.3s
342:	learn: 0.2071273	total: 1m 27s	remaining: 40.1s
343:	learn: 0.2070843	total: 1m 27s	remaining: 39.8s

344:	learn: 0.2069886	total: 1m 28s	remaining: 39.6s
345:	learn: 0.2069668	total: 1m 28s	remaining: 39.3s
346:	learn: 0.2069192	total: 1m 28s	remaining: 39.1s
347:	learn: 0.2068413	total: 1m 28s	remaining: 38.8s
348:	learn: 0.2067901	total: 1m 29s	remaining: 38.5s
349:	learn: 0.2067042	total: 1m 29s	remaining: 38.3s
350:	learn: 0.2066452	total: 1m 29s	remaining: 38s
351:	learn: 0.2065661	total: 1m 29s	remaining: 37.8s
352:	learn: 0.2065022	total: 1m 30s	remaining: 37.5s
353:	learn: 0.2064661	total: 1m 30s	remaining: 37.3s
354:	learn: 0.2064262	total: 1m 30s	remaining: 37s
355:	learn: 0.2063734	total: 1m 30s	remaining: 36.8s
356:	learn: 0.2063539	total: 1m 31s	remaining: 36.5s
357:	learn: 0.2062717	total: 1m 31s	remaining: 36.3s
358:	learn: 0.2061869	total: 1m 31s	remaining: 36s
359:	learn: 0.2061299	total: 1m 32s	remaining: 35.8s
360:	learn: 0.2060810	total: 1m 32s	remaining: 35.5s
361:	learn: 0.2060246	total: 1m 32s	remaining: 35.3s
362:	learn: 0.2059623	total: 1m 32s	remaining: 35s
363:	learn: 0.2059460	total: 1m 32s	remaining: 34.7s
364:	learn: 0.2058582	total: 1m 33s	remaining: 34.5s
365:	learn: 0.2057788	total: 1m 33s	remaining: 34.2s
366:	learn: 0.2057642	total: 1m 33s	remaining: 33.9s
367:	learn: 0.2056841	total: 1m 33s	remaining: 33.7s
368:	learn: 0.2055441	total: 1m 34s	remaining: 33.4s
369:	learn: 0.2054452	total: 1m 34s	remaining: 33.1s
370:	learn: 0.2054028	total: 1m 34s	remaining: 32.8s
371:	learn: 0.2053211	total: 1m 34s	remaining: 32.6s
372:	learn: 0.2052953	total: 1m 34s	remaining: 32.3s
373:	learn: 0.2051915	total: 1m 34s	remaining: 32s
374:	learn: 0.2051441	total: 1m 35s	remaining: 31.7s
375:	learn: 0.2049942	total: 1m 35s	remaining: 31.4s
376:	learn: 0.2049608	total: 1m 35s	remaining: 31.2s
377:	learn: 0.2048881	total: 1m 35s	remaining: 30.9s
378:	learn: 0.2048485	total: 1m 36s	remaining: 30.7s
379:	learn: 0.2047796	total: 1m 36s	remaining: 30.4s
380:	learn: 0.2047340	total: 1m 36s	remaining: 30.2s
381:	learn: 0.2046835	total: 1m 36s	remaining: 29.9s
382:	learn: 0.2045663	total: 1m 37s	remaining: 29.7s
383:	learn: 0.2045083	total: 1m 37s	remaining: 29.4s
384:	learn: 0.2043722	total: 1m 37s	remaining: 29.1s
385:	learn: 0.2043392	total: 1m 37s	remaining: 28.9s
386:	learn: 0.2043155	total: 1m 38s	remaining: 28.6s
387:	learn: 0.2042620	total: 1m 38s	remaining: 28.4s
388:	learn: 0.2040577	total: 1m 38s	remaining: 28.1s
389:	learn: 0.2039654	total: 1m 38s	remaining: 27.8s
390:	learn: 0.2039468	total: 1m 38s	remaining: 27.6s
391:	learn: 0.2039188	total: 1m 39s	remaining: 27.3s

392:	learn: 0.2038798	total: 1m 39s	remaining: 27.1s
393:	learn: 0.2038383	total: 1m 39s	remaining: 26.8s
394:	learn: 0.2037084	total: 1m 39s	remaining: 26.5s
395:	learn: 0.2036209	total: 1m 40s	remaining: 26.3s
396:	learn: 0.2034664	total: 1m 40s	remaining: 26s
397:	learn: 0.2033697	total: 1m 40s	remaining: 25.8s
398:	learn: 0.2033535	total: 1m 40s	remaining: 25.5s
399:	learn: 0.2032606	total: 1m 41s	remaining: 25.3s
400:	learn: 0.2031013	total: 1m 41s	remaining: 25s
401:	learn: 0.2030677	total: 1m 41s	remaining: 24.8s
402:	learn: 0.2030511	total: 1m 41s	remaining: 24.5s
403:	learn: 0.2030312	total: 1m 42s	remaining: 24.3s
404:	learn: 0.2029925	total: 1m 42s	remaining: 24s
405:	learn: 0.2029730	total: 1m 42s	remaining: 23.8s
406:	learn: 0.2029029	total: 1m 42s	remaining: 23.5s
407:	learn: 0.2028254	total: 1m 43s	remaining: 23.3s
408:	learn: 0.2027819	total: 1m 43s	remaining: 23s
409:	learn: 0.2027511	total: 1m 43s	remaining: 22.8s
410:	learn: 0.2026700	total: 1m 44s	remaining: 22.5s
411:	learn: 0.2026395	total: 1m 44s	remaining: 22.3s
412:	learn: 0.2025855	total: 1m 44s	remaining: 22s
413:	learn: 0.2025340	total: 1m 44s	remaining: 21.8s
414:	learn: 0.2024455	total: 1m 45s	remaining: 21.5s
415:	learn: 0.2023710	total: 1m 45s	remaining: 21.3s
416:	learn: 0.2020359	total: 1m 45s	remaining: 21s
417:	learn: 0.2020178	total: 1m 45s	remaining: 20.8s
418:	learn: 0.2020078	total: 1m 46s	remaining: 20.5s
419:	learn: 0.2019612	total: 1m 46s	remaining: 20.3s
420:	learn: 0.2019048	total: 1m 46s	remaining: 20s
421:	learn: 0.2018736	total: 1m 46s	remaining: 19.8s
422:	learn: 0.2018335	total: 1m 47s	remaining: 19.5s
423:	learn: 0.2018042	total: 1m 47s	remaining: 19.3s
424:	learn: 0.2017957	total: 1m 48s	remaining: 19.1s
425:	learn: 0.2016848	total: 1m 48s	remaining: 18.8s
426:	learn: 0.2016675	total: 1m 48s	remaining: 18.6s
427:	learn: 0.2016094	total: 1m 49s	remaining: 18.4s
428:	learn: 0.2015685	total: 1m 49s	remaining: 18.1s
429:	learn: 0.2015455	total: 1m 49s	remaining: 17.9s
430:	learn: 0.2014558	total: 1m 50s	remaining: 17.6s
431:	learn: 0.2014449	total: 1m 50s	remaining: 17.4s
432:	learn: 0.2013771	total: 1m 50s	remaining: 17.2s
433:	learn: 0.2012708	total: 1m 51s	remaining: 16.9s
434:	learn: 0.2012523	total: 1m 51s	remaining: 16.7s
435:	learn: 0.2011824	total: 1m 51s	remaining: 16.4s
436:	learn: 0.2010686	total: 1m 52s	remaining: 16.2s
437:	learn: 0.2009582	total: 1m 52s	remaining: 15.9s
438:	learn: 0.2009311	total: 1m 52s	remaining: 15.7s
439:	learn: 0.2008975	total: 1m 53s	remaining: 15.4s

440:	learn: 0.2008488	total: 1m 53s	remaining: 15.2s
441:	learn: 0.2008163	total: 1m 53s	remaining: 14.9s
442:	learn: 0.2007684	total: 1m 54s	remaining: 14.7s
443:	learn: 0.2007269	total: 1m 54s	remaining: 14.4s
444:	learn: 0.2006792	total: 1m 54s	remaining: 14.2s
445:	learn: 0.2006438	total: 1m 55s	remaining: 13.9s
446:	learn: 0.2005807	total: 1m 55s	remaining: 13.7s
447:	learn: 0.2005375	total: 1m 55s	remaining: 13.5s
448:	learn: 0.2004584	total: 1m 56s	remaining: 13.2s
449:	learn: 0.2003941	total: 1m 56s	remaining: 13s
450:	learn: 0.2003653	total: 1m 57s	remaining: 12.7s
451:	learn: 0.2003180	total: 1m 57s	remaining: 12.5s
452:	learn: 0.2002184	total: 1m 57s	remaining: 12.2s
453:	learn: 0.2000939	total: 1m 58s	remaining: 12s
454:	learn: 0.2000148	total: 1m 58s	remaining: 11.7s
455:	learn: 0.1999560	total: 1m 58s	remaining: 11.5s
456:	learn: 0.1997707	total: 1m 59s	remaining: 11.2s
457:	learn: 0.1997594	total: 1m 59s	remaining: 10.9s
458:	learn: 0.1996991	total: 1m 59s	remaining: 10.7s
459:	learn: 0.1996337	total: 2m	remaining: 10.4s
460:	learn: 0.1995876	total: 2m	remaining: 10.2s
461:	learn: 0.1994792	total: 2m	remaining: 9.94s
462:	learn: 0.1994497	total: 2m 1s	remaining: 9.68s
463:	learn: 0.1993620	total: 2m 1s	remaining: 9.43s
464:	learn: 0.1992788	total: 2m 1s	remaining: 9.18s
465:	learn: 0.1992377	total: 2m 2s	remaining: 8.92s
466:	learn: 0.1991420	total: 2m 2s	remaining: 8.66s
467:	learn: 0.1990840	total: 2m 3s	remaining: 8.41s
468:	learn: 0.1990056	total: 2m 3s	remaining: 8.15s
469:	learn: 0.1989894	total: 2m 3s	remaining: 7.9s
470:	learn: 0.1989658	total: 2m 3s	remaining: 7.63s
471:	learn: 0.1989362	total: 2m 4s	remaining: 7.37s
472:	learn: 0.1988593	total: 2m 4s	remaining: 7.11s
473:	learn: 0.1988306	total: 2m 5s	remaining: 6.86s
474:	learn: 0.1988014	total: 2m 5s	remaining: 6.6s
475:	learn: 0.1987381	total: 2m 5s	remaining: 6.34s
476:	learn: 0.1987089	total: 2m 6s	remaining: 6.08s
477:	learn: 0.1986037	total: 2m 6s	remaining: 5.82s
478:	learn: 0.1985319	total: 2m 6s	remaining: 5.56s
479:	learn: 0.1984900	total: 2m 7s	remaining: 5.3s
480:	learn: 0.1984634	total: 2m 7s	remaining: 5.04s
481:	learn: 0.1984311	total: 2m 7s	remaining: 4.78s
482:	learn: 0.1983606	total: 2m 8s	remaining: 4.52s
483:	learn: 0.1982906	total: 2m 8s	remaining: 4.25s
484:	learn: 0.1982761	total: 2m 9s	remaining: 3.99s
485:	learn: 0.1982057	total: 2m 9s	remaining: 3.73s
486:	learn: 0.1981695	total: 2m 9s	remaining: 3.46s
487:	learn: 0.1981089	total: 2m 10s	remaining: 3.2s

488:	learn: 0.1980694	total: 2m 10s	remaining: 2.94s
489:	learn: 0.1980276	total: 2m 10s	remaining: 2.67s
490:	learn: 0.1979839	total: 2m 11s	remaining: 2.4s
491:	learn: 0.1979693	total: 2m 11s	remaining: 2.14s
492:	learn: 0.1979215	total: 2m 11s	remaining: 1.87s
493:	learn: 0.1978807	total: 2m 12s	remaining: 1.61s
494:	learn: 0.1978187	total: 2m 12s	remaining: 1.34s
495:	learn: 0.1977116	total: 2m 13s	remaining: 1.07s
496:	learn: 0.1976559	total: 2m 13s	remaining: 805ms
497:	learn: 0.1975978	total: 2m 13s	remaining: 537ms
498:	learn: 0.1975752	total: 2m 14s	remaining: 269ms
499:	learn: 0.1975006	total: 2m 14s	remaining: 0us

Learning rate set to 0.173965

0:	learn: 0.9706594	total: 356ms	remaining: 2m 57s
1:	learn: 0.8903758	total: 729ms	remaining: 3m 1s
2:	learn: 0.8308123	total: 1.09s	remaining: 3m
3:	learn: 0.7860917	total: 1.41s	remaining: 2m 54s
4:	learn: 0.6856027	total: 1.79s	remaining: 2m 57s
5:	learn: 0.6332008	total: 2.08s	remaining: 2m 51s
6:	learn: 0.6112663	total: 2.44s	remaining: 2m 51s
7:	learn: 0.5582156	total: 2.81s	remaining: 2m 52s
8:	learn: 0.5076741	total: 3.19s	remaining: 2m 53s
9:	learn: 0.4610886	total: 3.55s	remaining: 2m 53s
10:	learn: 0.4296468	total: 3.9s	remaining: 2m 53s
11:	learn: 0.4153219	total: 4.29s	remaining: 2m 54s
12:	learn: 0.3919545	total: 4.7s	remaining: 2m 56s
13:	learn: 0.3733179	total: 5.08s	remaining: 2m 56s
14:	learn: 0.3583193	total: 5.48s	remaining: 2m 57s
15:	learn: 0.3493940	total: 5.82s	remaining: 2m 55s
16:	learn: 0.3370837	total: 6.2s	remaining: 2m 56s
17:	learn: 0.3271982	total: 6.55s	remaining: 2m 55s
18:	learn: 0.3203891	total: 6.91s	remaining: 2m 54s
19:	learn: 0.3077774	total: 7.38s	remaining: 2m 57s
20:	learn: 0.3060260	total: 7.76s	remaining: 2m 56s
21:	learn: 0.2961447	total: 8.17s	remaining: 2m 57s
22:	learn: 0.2925062	total: 8.55s	remaining: 2m 57s
23:	learn: 0.2844899	total: 8.98s	remaining: 2m 58s
24:	learn: 0.2781133	total: 9.36s	remaining: 2m 57s
25:	learn: 0.2768506	total: 9.76s	remaining: 2m 57s
26:	learn: 0.2753922	total: 10.1s	remaining: 2m 57s
27:	learn: 0.2700626	total: 10.4s	remaining: 2m 56s
28:	learn: 0.2693443	total: 10.8s	remaining: 2m 55s
29:	learn: 0.2668691	total: 11.2s	remaining: 2m 54s
30:	learn: 0.2650211	total: 11.5s	remaining: 2m 54s
31:	learn: 0.2612506	total: 11.9s	remaining: 2m 54s
32:	learn: 0.2604733	total: 12.3s	remaining: 2m 54s
33:	learn: 0.2600989	total: 12.6s	remaining: 2m 52s
34:	learn: 0.2592773	total: 13s	remaining: 2m 52s

35:	learn: 0.2591453	total: 13.1s	remaining: 2m 48s
36:	learn: 0.2586211	total: 13.4s	remaining: 2m 47s
37:	learn: 0.2580523	total: 13.8s	remaining: 2m 47s
38:	learn: 0.2576334	total: 14.2s	remaining: 2m 47s
39:	learn: 0.2563720	total: 14.6s	remaining: 2m 47s
40:	learn: 0.2549949	total: 14.9s	remaining: 2m 46s
41:	learn: 0.2543469	total: 15.2s	remaining: 2m 46s
42:	learn: 0.2501296	total: 15.6s	remaining: 2m 45s
43:	learn: 0.2493197	total: 16s	remaining: 2m 45s
44:	learn: 0.2490546	total: 16.3s	remaining: 2m 44s
45:	learn: 0.2489626	total: 16.6s	remaining: 2m 43s
46:	learn: 0.2464420	total: 17s	remaining: 2m 43s
47:	learn: 0.2463227	total: 17.4s	remaining: 2m 43s
48:	learn: 0.2461599	total: 17.8s	remaining: 2m 43s
49:	learn: 0.2454319	total: 18.1s	remaining: 2m 43s
50:	learn: 0.2448796	total: 18.5s	remaining: 2m 42s
51:	learn: 0.2446282	total: 18.8s	remaining: 2m 42s
52:	learn: 0.2432585	total: 19.2s	remaining: 2m 41s
53:	learn: 0.2431211	total: 19.6s	remaining: 2m 41s
54:	learn: 0.2425952	total: 19.9s	remaining: 2m 40s
55:	learn: 0.2423477	total: 20.2s	remaining: 2m 40s
56:	learn: 0.2422139	total: 20.6s	remaining: 2m 40s
57:	learn: 0.2416924	total: 21s	remaining: 2m 40s
58:	learn: 0.2415598	total: 21.4s	remaining: 2m 40s
59:	learn: 0.2412428	total: 21.7s	remaining: 2m 39s
60:	learn: 0.2411885	total: 22.1s	remaining: 2m 38s
61:	learn: 0.2403026	total: 22.5s	remaining: 2m 38s
62:	learn: 0.2401079	total: 22.8s	remaining: 2m 38s
63:	learn: 0.2397731	total: 23.2s	remaining: 2m 37s
64:	learn: 0.2397140	total: 23.6s	remaining: 2m 37s
65:	learn: 0.2395533	total: 23.9s	remaining: 2m 37s
66:	learn: 0.2391976	total: 24.3s	remaining: 2m 36s
67:	learn: 0.2382518	total: 24.6s	remaining: 2m 36s
68:	learn: 0.2381847	total: 25s	remaining: 2m 36s
69:	learn: 0.2381441	total: 25.3s	remaining: 2m 35s
70:	learn: 0.2380004	total: 25.6s	remaining: 2m 34s
71:	learn: 0.2376046	total: 26s	remaining: 2m 34s
72:	learn: 0.2369514	total: 26.4s	remaining: 2m 34s
73:	learn: 0.2366518	total: 26.7s	remaining: 2m 33s
74:	learn: 0.2365203	total: 27.1s	remaining: 2m 33s
75:	learn: 0.2363582	total: 27.5s	remaining: 2m 33s
76:	learn: 0.2363371	total: 27.9s	remaining: 2m 33s
77:	learn: 0.2360533	total: 28.3s	remaining: 2m 33s
78:	learn: 0.2357212	total: 28.6s	remaining: 2m 32s
79:	learn: 0.2356593	total: 29s	remaining: 2m 32s
80:	learn: 0.2352605	total: 29.3s	remaining: 2m 31s
81:	learn: 0.2331356	total: 29.7s	remaining: 2m 31s
82:	learn: 0.2320490	total: 30s	remaining: 2m 30s

83:	learn: 0.2319652	total: 30.4s	remaining: 2m 30s
84:	learn: 0.2316678	total: 30.7s	remaining: 2m 30s
85:	learn: 0.2314991	total: 31.2s	remaining: 2m 30s
86:	learn: 0.2313653	total: 31.6s	remaining: 2m 29s
87:	learn: 0.2310059	total: 31.9s	remaining: 2m 29s
88:	learn: 0.2308130	total: 32.3s	remaining: 2m 29s
89:	learn: 0.2306599	total: 32.6s	remaining: 2m 28s
90:	learn: 0.2305399	total: 33s	remaining: 2m 28s
91:	learn: 0.2300945	total: 33.3s	remaining: 2m 27s
92:	learn: 0.2291687	total: 33.7s	remaining: 2m 27s
93:	learn: 0.2289785	total: 34.1s	remaining: 2m 27s
94:	learn: 0.2284286	total: 34.5s	remaining: 2m 26s
95:	learn: 0.2282317	total: 34.8s	remaining: 2m 26s
96:	learn: 0.2279616	total: 35.2s	remaining: 2m 26s
97:	learn: 0.2278302	total: 35.5s	remaining: 2m 25s
98:	learn: 0.2277675	total: 35.8s	remaining: 2m 25s
99:	learn: 0.2276630	total: 36.2s	remaining: 2m 24s
100:	learn: 0.2275517	total: 36.5s	remaining: 2m 24s
101:	learn: 0.2275006	total: 36.9s	remaining: 2m 23s
102:	learn: 0.2273339	total: 37.3s	remaining: 2m 23s
103:	learn: 0.2271211	total: 37.7s	remaining: 2m 23s
104:	learn: 0.2270802	total: 38s	remaining: 2m 22s
105:	learn: 0.2269747	total: 38.4s	remaining: 2m 22s
106:	learn: 0.2255379	total: 38.8s	remaining: 2m 22s
107:	learn: 0.2255166	total: 39.2s	remaining: 2m 22s
108:	learn: 0.2254594	total: 39.5s	remaining: 2m 21s
109:	learn: 0.2253269	total: 39.9s	remaining: 2m 21s
110:	learn: 0.2252614	total: 40.3s	remaining: 2m 21s
111:	learn: 0.2250748	total: 40.7s	remaining: 2m 20s
112:	learn: 0.2249256	total: 41s	remaining: 2m 20s
113:	learn: 0.2248646	total: 41.4s	remaining: 2m 20s
114:	learn: 0.2247737	total: 41.7s	remaining: 2m 19s
115:	learn: 0.2246929	total: 42s	remaining: 2m 19s
116:	learn: 0.2246303	total: 42.3s	remaining: 2m 18s
117:	learn: 0.2245490	total: 42.7s	remaining: 2m 18s
118:	learn: 0.2244891	total: 43s	remaining: 2m 17s
119:	learn: 0.2244665	total: 43.4s	remaining: 2m 17s
120:	learn: 0.2243669	total: 43.7s	remaining: 2m 17s
121:	learn: 0.2242964	total: 44.1s	remaining: 2m 16s
122:	learn: 0.2242410	total: 44.3s	remaining: 2m 15s
123:	learn: 0.2242164	total: 44.7s	remaining: 2m 15s
124:	learn: 0.2241364	total: 45s	remaining: 2m 15s
125:	learn: 0.2241050	total: 45.4s	remaining: 2m 14s
126:	learn: 0.2239783	total: 45.7s	remaining: 2m 14s
127:	learn: 0.2238404	total: 46.1s	remaining: 2m 14s
128:	learn: 0.2237735	total: 46.4s	remaining: 2m 13s
129:	learn: 0.2236587	total: 46.7s	remaining: 2m 13s
130:	learn: 0.2235872	total: 47.1s	remaining: 2m 12s

131:	learn: 0.2234060	total: 47.5s	remaining: 2m 12s
132:	learn: 0.2233765	total: 47.8s	remaining: 2m 11s
133:	learn: 0.2232484	total: 48.1s	remaining: 2m 11s
134:	learn: 0.2230164	total: 48.4s	remaining: 2m 10s
135:	learn: 0.2229132	total: 48.8s	remaining: 2m 10s
136:	learn: 0.2228056	total: 49.2s	remaining: 2m 10s
137:	learn: 0.2227514	total: 49.5s	remaining: 2m 9s
138:	learn: 0.2226626	total: 49.8s	remaining: 2m 9s
139:	learn: 0.2223882	total: 50.1s	remaining: 2m 8s
140:	learn: 0.2221926	total: 50.5s	remaining: 2m 8s
141:	learn: 0.2221451	total: 50.8s	remaining: 2m 8s
142:	learn: 0.2221046	total: 51.2s	remaining: 2m 7s
143:	learn: 0.2219054	total: 51.5s	remaining: 2m 7s
144:	learn: 0.2217366	total: 52s	remaining: 2m 7s
145:	learn: 0.2216144	total: 52.3s	remaining: 2m 6s
146:	learn: 0.2215409	total: 52.7s	remaining: 2m 6s
147:	learn: 0.2213728	total: 53.1s	remaining: 2m 6s
148:	learn: 0.2212950	total: 53.4s	remaining: 2m 5s
149:	learn: 0.2211453	total: 53.7s	remaining: 2m 5s
150:	learn: 0.2210521	total: 54.1s	remaining: 2m 5s
151:	learn: 0.2209634	total: 54.5s	remaining: 2m 4s
152:	learn: 0.2208155	total: 54.9s	remaining: 2m 4s
153:	learn: 0.2207465	total: 55.3s	remaining: 2m 4s
154:	learn: 0.2206656	total: 55.6s	remaining: 2m 3s
155:	learn: 0.2205618	total: 56s	remaining: 2m 3s
156:	learn: 0.2204184	total: 56.3s	remaining: 2m 2s
157:	learn: 0.2202531	total: 56.7s	remaining: 2m 2s
158:	learn: 0.2198579	total: 57.1s	remaining: 2m 2s
159:	learn: 0.2197986	total: 57.5s	remaining: 2m 2s
160:	learn: 0.2197575	total: 57.9s	remaining: 2m 1s
161:	learn: 0.2196621	total: 58.2s	remaining: 2m 1s
162:	learn: 0.2196209	total: 58.6s	remaining: 2m 1s
163:	learn: 0.2193396	total: 58.9s	remaining: 2m
164:	learn: 0.2192482	total: 59.2s	remaining: 2m
165:	learn: 0.2192055	total: 59.6s	remaining: 1m 59s
166:	learn: 0.2190643	total: 1m	remaining: 1m 59s
167:	learn: 0.2188160	total: 1m	remaining: 1m 59s
168:	learn: 0.2187440	total: 1m	remaining: 1m 59s
169:	learn: 0.2186096	total: 1m 1s	remaining: 1m 58s
170:	learn: 0.2185433	total: 1m 1s	remaining: 1m 58s
171:	learn: 0.2185191	total: 1m 1s	remaining: 1m 57s
172:	learn: 0.2184370	total: 1m 2s	remaining: 1m 57s
173:	learn: 0.2182524	total: 1m 2s	remaining: 1m 57s
174:	learn: 0.2181407	total: 1m 2s	remaining: 1m 56s
175:	learn: 0.2179876	total: 1m 3s	remaining: 1m 56s
176:	learn: 0.2179548	total: 1m 3s	remaining: 1m 56s
177:	learn: 0.2177909	total: 1m 3s	remaining: 1m 55s
178:	learn: 0.2177284	total: 1m 4s	remaining: 1m 55s

179:	learn: 0.2175554	total: 1m 4s	remaining: 1m 54s
180:	learn: 0.2175018	total: 1m 4s	remaining: 1m 54s
181:	learn: 0.2174453	total: 1m 5s	remaining: 1m 54s
182:	learn: 0.2173708	total: 1m 5s	remaining: 1m 53s
183:	learn: 0.2172737	total: 1m 6s	remaining: 1m 53s
184:	learn: 0.2172100	total: 1m 6s	remaining: 1m 53s
185:	learn: 0.2170592	total: 1m 6s	remaining: 1m 52s
186:	learn: 0.2170088	total: 1m 7s	remaining: 1m 52s
187:	learn: 0.2169734	total: 1m 7s	remaining: 1m 52s
188:	learn: 0.2169177	total: 1m 7s	remaining: 1m 51s
189:	learn: 0.2168950	total: 1m 8s	remaining: 1m 51s
190:	learn: 0.2168182	total: 1m 8s	remaining: 1m 50s
191:	learn: 0.2167493	total: 1m 8s	remaining: 1m 50s
192:	learn: 0.2167105	total: 1m 9s	remaining: 1m 50s
193:	learn: 0.2166935	total: 1m 9s	remaining: 1m 49s
194:	learn: 0.2166373	total: 1m 9s	remaining: 1m 49s
195:	learn: 0.2166066	total: 1m 10s	remaining: 1m 49s
196:	learn: 0.2164644	total: 1m 10s	remaining: 1m 48s
197:	learn: 0.2163888	total: 1m 10s	remaining: 1m 48s
198:	learn: 0.2163636	total: 1m 11s	remaining: 1m 47s
199:	learn: 0.2162837	total: 1m 11s	remaining: 1m 47s
200:	learn: 0.2162246	total: 1m 11s	remaining: 1m 47s
201:	learn: 0.2161771	total: 1m 12s	remaining: 1m 46s
202:	learn: 0.2160801	total: 1m 12s	remaining: 1m 46s
203:	learn: 0.2159935	total: 1m 13s	remaining: 1m 46s
204:	learn: 0.2159464	total: 1m 13s	remaining: 1m 45s
205:	learn: 0.2159010	total: 1m 13s	remaining: 1m 45s
206:	learn: 0.2158316	total: 1m 14s	remaining: 1m 44s
207:	learn: 0.2158100	total: 1m 14s	remaining: 1m 44s
208:	learn: 0.2157213	total: 1m 14s	remaining: 1m 44s
209:	learn: 0.2156849	total: 1m 15s	remaining: 1m 43s
210:	learn: 0.2156542	total: 1m 15s	remaining: 1m 43s
211:	learn: 0.2154997	total: 1m 15s	remaining: 1m 43s
212:	learn: 0.2154522	total: 1m 16s	remaining: 1m 42s
213:	learn: 0.2153978	total: 1m 16s	remaining: 1m 42s
214:	learn: 0.2153447	total: 1m 16s	remaining: 1m 42s
215:	learn: 0.2152976	total: 1m 17s	remaining: 1m 41s
216:	learn: 0.2152189	total: 1m 17s	remaining: 1m 41s
217:	learn: 0.2151559	total: 1m 18s	remaining: 1m 40s
218:	learn: 0.2150093	total: 1m 18s	remaining: 1m 40s
219:	learn: 0.2149435	total: 1m 18s	remaining: 1m 40s
220:	learn: 0.2149231	total: 1m 19s	remaining: 1m 39s
221:	learn: 0.2148134	total: 1m 19s	remaining: 1m 39s
222:	learn: 0.2147460	total: 1m 19s	remaining: 1m 39s
223:	learn: 0.2146875	total: 1m 20s	remaining: 1m 38s
224:	learn: 0.2146412	total: 1m 20s	remaining: 1m 38s
225:	learn: 0.2145677	total: 1m 20s	remaining: 1m 37s
226:	learn: 0.2144369	total: 1m 21s	remaining: 1m 37s

227:	learn: 0.2144064	total: 1m 21s	remaining: 1m 37s
228:	learn: 0.2142968	total: 1m 21s	remaining: 1m 36s
229:	learn: 0.2141868	total: 1m 22s	remaining: 1m 36s
230:	learn: 0.2141436	total: 1m 22s	remaining: 1m 36s
231:	learn: 0.2140620	total: 1m 22s	remaining: 1m 35s
232:	learn: 0.2140106	total: 1m 23s	remaining: 1m 35s
233:	learn: 0.2138677	total: 1m 23s	remaining: 1m 35s
234:	learn: 0.2138374	total: 1m 24s	remaining: 1m 34s
235:	learn: 0.2137847	total: 1m 24s	remaining: 1m 34s
236:	learn: 0.2137121	total: 1m 24s	remaining: 1m 34s
237:	learn: 0.2136703	total: 1m 25s	remaining: 1m 33s
238:	learn: 0.2135085	total: 1m 25s	remaining: 1m 33s
239:	learn: 0.2134518	total: 1m 25s	remaining: 1m 33s
240:	learn: 0.2134168	total: 1m 26s	remaining: 1m 32s
241:	learn: 0.2133281	total: 1m 26s	remaining: 1m 32s
242:	learn: 0.2132885	total: 1m 26s	remaining: 1m 31s
243:	learn: 0.2132575	total: 1m 27s	remaining: 1m 31s
244:	learn: 0.2131851	total: 1m 27s	remaining: 1m 31s
245:	learn: 0.2130840	total: 1m 28s	remaining: 1m 30s
246:	learn: 0.2129635	total: 1m 28s	remaining: 1m 30s
247:	learn: 0.2128604	total: 1m 28s	remaining: 1m 30s
248:	learn: 0.2122311	total: 1m 29s	remaining: 1m 29s
249:	learn: 0.2121898	total: 1m 29s	remaining: 1m 29s
250:	learn: 0.2121658	total: 1m 29s	remaining: 1m 29s
251:	learn: 0.2120571	total: 1m 30s	remaining: 1m 28s
252:	learn: 0.2120274	total: 1m 30s	remaining: 1m 28s
253:	learn: 0.2120014	total: 1m 30s	remaining: 1m 27s
254:	learn: 0.2118866	total: 1m 31s	remaining: 1m 27s
255:	learn: 0.2118349	total: 1m 31s	remaining: 1m 27s
256:	learn: 0.2117662	total: 1m 31s	remaining: 1m 26s
257:	learn: 0.2116890	total: 1m 32s	remaining: 1m 26s
258:	learn: 0.2116533	total: 1m 32s	remaining: 1m 26s
259:	learn: 0.2115879	total: 1m 33s	remaining: 1m 25s
260:	learn: 0.2115104	total: 1m 33s	remaining: 1m 25s
261:	learn: 0.2115000	total: 1m 33s	remaining: 1m 25s
262:	learn: 0.2114196	total: 1m 34s	remaining: 1m 24s
263:	learn: 0.2113224	total: 1m 34s	remaining: 1m 24s
264:	learn: 0.2112649	total: 1m 34s	remaining: 1m 24s
265:	learn: 0.2111754	total: 1m 35s	remaining: 1m 23s
266:	learn: 0.2111009	total: 1m 35s	remaining: 1m 23s
267:	learn: 0.2110199	total: 1m 35s	remaining: 1m 22s
268:	learn: 0.2109926	total: 1m 36s	remaining: 1m 22s
269:	learn: 0.2109287	total: 1m 36s	remaining: 1m 22s
270:	learn: 0.2108861	total: 1m 36s	remaining: 1m 21s
271:	learn: 0.2108506	total: 1m 37s	remaining: 1m 21s
272:	learn: 0.2107165	total: 1m 37s	remaining: 1m 21s
273:	learn: 0.2106536	total: 1m 37s	remaining: 1m 20s
274:	learn: 0.2105934	total: 1m 38s	remaining: 1m 20s

275:	learn: 0.2105656	total: 1m 38s	remaining: 1m 20s
276:	learn: 0.2105498	total: 1m 38s	remaining: 1m 19s
277:	learn: 0.2104118	total: 1m 39s	remaining: 1m 19s
278:	learn: 0.2103584	total: 1m 39s	remaining: 1m 18s
279:	learn: 0.2103300	total: 1m 39s	remaining: 1m 18s
280:	learn: 0.2102575	total: 1m 40s	remaining: 1m 18s
281:	learn: 0.2102058	total: 1m 40s	remaining: 1m 17s
282:	learn: 0.2101349	total: 1m 41s	remaining: 1m 17s
283:	learn: 0.2100205	total: 1m 41s	remaining: 1m 17s
284:	learn: 0.2099353	total: 1m 41s	remaining: 1m 16s
285:	learn: 0.2097613	total: 1m 42s	remaining: 1m 16s
286:	learn: 0.2096988	total: 1m 42s	remaining: 1m 16s
287:	learn: 0.2095894	total: 1m 42s	remaining: 1m 15s
288:	learn: 0.2095269	total: 1m 43s	remaining: 1m 15s
289:	learn: 0.2094456	total: 1m 43s	remaining: 1m 14s
290:	learn: 0.2094081	total: 1m 43s	remaining: 1m 14s
291:	learn: 0.2093322	total: 1m 44s	remaining: 1m 14s
292:	learn: 0.2092594	total: 1m 44s	remaining: 1m 13s
293:	learn: 0.2091988	total: 1m 45s	remaining: 1m 13s
294:	learn: 0.2090695	total: 1m 45s	remaining: 1m 13s
295:	learn: 0.2090342	total: 1m 45s	remaining: 1m 12s
296:	learn: 0.2089873	total: 1m 45s	remaining: 1m 12s
297:	learn: 0.2089791	total: 1m 46s	remaining: 1m 12s
298:	learn: 0.2089222	total: 1m 46s	remaining: 1m 11s
299:	learn: 0.2088686	total: 1m 46s	remaining: 1m 11s
300:	learn: 0.2088089	total: 1m 47s	remaining: 1m 11s
301:	learn: 0.2087883	total: 1m 47s	remaining: 1m 10s
302:	learn: 0.2087332	total: 1m 48s	remaining: 1m 10s
303:	learn: 0.2086248	total: 1m 48s	remaining: 1m 9s
304:	learn: 0.2085932	total: 1m 48s	remaining: 1m 9s
305:	learn: 0.2084603	total: 1m 49s	remaining: 1m 9s
306:	learn: 0.2084104	total: 1m 49s	remaining: 1m 8s
307:	learn: 0.2083597	total: 1m 49s	remaining: 1m 8s
308:	learn: 0.2083129	total: 1m 50s	remaining: 1m 8s
309:	learn: 0.2082627	total: 1m 50s	remaining: 1m 7s
310:	learn: 0.2081774	total: 1m 51s	remaining: 1m 7s
311:	learn: 0.2081415	total: 1m 51s	remaining: 1m 7s
312:	learn: 0.2080770	total: 1m 51s	remaining: 1m 6s
313:	learn: 0.2080443	total: 1m 52s	remaining: 1m 6s
314:	learn: 0.2079395	total: 1m 52s	remaining: 1m 6s
315:	learn: 0.2078097	total: 1m 52s	remaining: 1m 5s
316:	learn: 0.2077802	total: 1m 53s	remaining: 1m 5s
317:	learn: 0.2077135	total: 1m 53s	remaining: 1m 4s
318:	learn: 0.2076792	total: 1m 53s	remaining: 1m 4s
319:	learn: 0.2076112	total: 1m 54s	remaining: 1m 4s
320:	learn: 0.2075604	total: 1m 54s	remaining: 1m 3s
321:	learn: 0.2075260	total: 1m 55s	remaining: 1m 3s
322:	learn: 0.2075081	total: 1m 55s	remaining: 1m 3s

323:	learn: 0.2074804	total: 1m 55s	remaining: 1m 2s
324:	learn: 0.2074064	total: 1m 56s	remaining: 1m 2s
325:	learn: 0.2073362	total: 1m 56s	remaining: 1m 2s
326:	learn: 0.2073137	total: 1m 56s	remaining: 1m 1s
327:	learn: 0.2072736	total: 1m 57s	remaining: 1m 1s
328:	learn: 0.2072609	total: 1m 57s	remaining: 1m 1s
329:	learn: 0.2071153	total: 1m 57s	remaining: 1m
330:	learn: 0.2069570	total: 1m 58s	remaining: 1m
331:	learn: 0.2069243	total: 1m 58s	remaining: 1m
332:	learn: 0.2068926	total: 1m 58s	remaining: 59.7s
333:	learn: 0.2068516	total: 1m 59s	remaining: 59.3s
334:	learn: 0.2067887	total: 1m 59s	remaining: 58.9s
335:	learn: 0.2067597	total: 1m 59s	remaining: 58.6s
336:	learn: 0.2067225	total: 2m	remaining: 58.2s
337:	learn: 0.2059519	total: 2m	remaining: 57.9s
338:	learn: 0.2059020	total: 2m 1s	remaining: 57.6s
339:	learn: 0.2058179	total: 2m 1s	remaining: 57.2s
340:	learn: 0.2057682	total: 2m 2s	remaining: 56.9s
341:	learn: 0.2056031	total: 2m 2s	remaining: 56.5s
342:	learn: 0.2055626	total: 2m 2s	remaining: 56.1s
343:	learn: 0.2054854	total: 2m 2s	remaining: 55.7s
344:	learn: 0.2054518	total: 2m 3s	remaining: 55.4s
345:	learn: 0.2053624	total: 2m 3s	remaining: 55s
346:	learn: 0.2052690	total: 2m 3s	remaining: 54.6s
347:	learn: 0.2052032	total: 2m 4s	remaining: 54.2s
348:	learn: 0.2051432	total: 2m 4s	remaining: 53.8s
349:	learn: 0.2050325	total: 2m 4s	remaining: 53.4s
350:	learn: 0.2049992	total: 2m 5s	remaining: 53.1s
351:	learn: 0.2048827	total: 2m 5s	remaining: 52.7s
352:	learn: 0.2047720	total: 2m 5s	remaining: 52.3s
353:	learn: 0.2047100	total: 2m 5s	remaining: 51.9s
354:	learn: 0.2046676	total: 2m 6s	remaining: 51.5s
355:	learn: 0.2045980	total: 2m 6s	remaining: 51.1s
356:	learn: 0.2045271	total: 2m 6s	remaining: 50.8s
357:	learn: 0.2044298	total: 2m 7s	remaining: 50.4s
358:	learn: 0.2043813	total: 2m 7s	remaining: 50s
359:	learn: 0.2043394	total: 2m 7s	remaining: 49.6s
360:	learn: 0.2042497	total: 2m 7s	remaining: 49.2s
361:	learn: 0.2042103	total: 2m 8s	remaining: 48.9s
362:	learn: 0.2041709	total: 2m 8s	remaining: 48.5s
363:	learn: 0.2041459	total: 2m 8s	remaining: 48.1s
364:	learn: 0.2040517	total: 2m 8s	remaining: 47.7s
365:	learn: 0.2039449	total: 2m 9s	remaining: 47.3s
366:	learn: 0.2038856	total: 2m 9s	remaining: 47s
367:	learn: 0.2038567	total: 2m 9s	remaining: 46.6s
368:	learn: 0.2037737	total: 2m 10s	remaining: 46.2s
369:	learn: 0.2037089	total: 2m 10s	remaining: 45.8s
370:	learn: 0.2035874	total: 2m 10s	remaining: 45.5s

371:	learn: 0.2035556	total: 2m 11s	remaining: 45.1s
372:	learn: 0.2035030	total: 2m 11s	remaining: 44.7s
373:	learn: 0.2033774	total: 2m 11s	remaining: 44.3s
374:	learn: 0.2032943	total: 2m 11s	remaining: 44s
375:	learn: 0.2032850	total: 2m 12s	remaining: 43.6s
376:	learn: 0.2032584	total: 2m 12s	remaining: 43.2s
377:	learn: 0.2032290	total: 2m 12s	remaining: 42.8s
378:	learn: 0.2031709	total: 2m 12s	remaining: 42.5s
379:	learn: 0.2030998	total: 2m 13s	remaining: 42.1s
380:	learn: 0.2030142	total: 2m 13s	remaining: 41.7s
381:	learn: 0.2029172	total: 2m 13s	remaining: 41.3s
382:	learn: 0.2028442	total: 2m 14s	remaining: 41s
383:	learn: 0.2028191	total: 2m 14s	remaining: 40.6s
384:	learn: 0.2022513	total: 2m 14s	remaining: 40.2s
385:	learn: 0.2022408	total: 2m 14s	remaining: 39.8s
386:	learn: 0.2021404	total: 2m 15s	remaining: 39.5s
387:	learn: 0.2021016	total: 2m 15s	remaining: 39.1s
388:	learn: 0.2020517	total: 2m 15s	remaining: 38.7s
389:	learn: 0.2019872	total: 2m 16s	remaining: 38.4s
390:	learn: 0.2019374	total: 2m 16s	remaining: 38s
391:	learn: 0.2019082	total: 2m 16s	remaining: 37.6s
392:	learn: 0.2018053	total: 2m 16s	remaining: 37.2s
393:	learn: 0.2017205	total: 2m 17s	remaining: 36.9s
394:	learn: 0.2016882	total: 2m 17s	remaining: 36.5s
395:	learn: 0.2016339	total: 2m 17s	remaining: 36.1s
396:	learn: 0.2016191	total: 2m 17s	remaining: 35.7s
397:	learn: 0.2015685	total: 2m 17s	remaining: 35.4s
398:	learn: 0.2015024	total: 2m 18s	remaining: 35s
399:	learn: 0.2014833	total: 2m 18s	remaining: 34.6s
400:	learn: 0.2013464	total: 2m 18s	remaining: 34.2s
401:	learn: 0.2012997	total: 2m 18s	remaining: 33.9s
402:	learn: 0.2012710	total: 2m 19s	remaining: 33.5s
403:	learn: 0.2012214	total: 2m 19s	remaining: 33.1s
404:	learn: 0.2011783	total: 2m 19s	remaining: 32.8s
405:	learn: 0.2010769	total: 2m 20s	remaining: 32.4s
406:	learn: 0.2010488	total: 2m 20s	remaining: 32.1s
407:	learn: 0.2006371	total: 2m 20s	remaining: 31.7s
408:	learn: 0.2005361	total: 2m 20s	remaining: 31.3s
409:	learn: 0.2004633	total: 2m 21s	remaining: 31s
410:	learn: 0.2004508	total: 2m 21s	remaining: 30.6s
411:	learn: 0.2004323	total: 2m 21s	remaining: 30.3s
412:	learn: 0.2003492	total: 2m 21s	remaining: 29.9s
413:	learn: 0.2002811	total: 2m 22s	remaining: 29.5s
414:	learn: 0.2002427	total: 2m 22s	remaining: 29.2s
415:	learn: 0.2002333	total: 2m 22s	remaining: 28.8s
416:	learn: 0.2002100	total: 2m 22s	remaining: 28.5s
417:	learn: 0.2001996	total: 2m 23s	remaining: 28.1s
418:	learn: 0.2001064	total: 2m 23s	remaining: 27.8s

419:	learn: 0.2000542	total: 2m 23s	remaining: 27.4s
420:	learn: 0.1999460	total: 2m 24s	remaining: 27s
421:	learn: 0.1998950	total: 2m 24s	remaining: 26.7s
422:	learn: 0.1998460	total: 2m 24s	remaining: 26.3s
423:	learn: 0.1998311	total: 2m 24s	remaining: 26s
424:	learn: 0.1997723	total: 2m 25s	remaining: 25.6s
425:	learn: 0.1996964	total: 2m 25s	remaining: 25.3s
426:	learn: 0.1996383	total: 2m 25s	remaining: 24.9s
427:	learn: 0.1995823	total: 2m 26s	remaining: 24.6s
428:	learn: 0.1995213	total: 2m 26s	remaining: 24.2s
429:	learn: 0.1994198	total: 2m 26s	remaining: 23.9s
430:	learn: 0.1993584	total: 2m 26s	remaining: 23.5s
431:	learn: 0.1992863	total: 2m 27s	remaining: 23.2s
432:	learn: 0.1992031	total: 2m 27s	remaining: 22.8s
433:	learn: 0.1991699	total: 2m 27s	remaining: 22.5s
434:	learn: 0.1991538	total: 2m 27s	remaining: 22.1s
435:	learn: 0.1990897	total: 2m 28s	remaining: 21.8s
436:	learn: 0.1990177	total: 2m 28s	remaining: 21.4s
437:	learn: 0.1989989	total: 2m 28s	remaining: 21.1s
438:	learn: 0.1989338	total: 2m 29s	remaining: 20.7s
439:	learn: 0.1988469	total: 2m 29s	remaining: 20.4s
440:	learn: 0.1988224	total: 2m 29s	remaining: 20s
441:	learn: 0.1987902	total: 2m 29s	remaining: 19.7s
442:	learn: 0.1987278	total: 2m 30s	remaining: 19.3s
443:	learn: 0.1986365	total: 2m 30s	remaining: 19s
444:	learn: 0.1985570	total: 2m 30s	remaining: 18.6s
445:	learn: 0.1984906	total: 2m 31s	remaining: 18.3s
446:	learn: 0.1981674	total: 2m 31s	remaining: 17.9s
447:	learn: 0.1980734	total: 2m 31s	remaining: 17.6s
448:	learn: 0.1980256	total: 2m 31s	remaining: 17.2s
449:	learn: 0.1979481	total: 2m 32s	remaining: 16.9s
450:	learn: 0.1978767	total: 2m 32s	remaining: 16.6s
451:	learn: 0.1978500	total: 2m 32s	remaining: 16.2s
452:	learn: 0.1978284	total: 2m 32s	remaining: 15.9s
453:	learn: 0.1977942	total: 2m 33s	remaining: 15.5s
454:	learn: 0.1977548	total: 2m 33s	remaining: 15.2s
455:	learn: 0.1976533	total: 2m 33s	remaining: 14.8s
456:	learn: 0.1976290	total: 2m 33s	remaining: 14.5s
457:	learn: 0.1975535	total: 2m 34s	remaining: 14.1s
458:	learn: 0.1975124	total: 2m 34s	remaining: 13.8s
459:	learn: 0.1974613	total: 2m 34s	remaining: 13.4s
460:	learn: 0.1974003	total: 2m 34s	remaining: 13.1s
461:	learn: 0.1973556	total: 2m 34s	remaining: 12.7s
462:	learn: 0.1972362	total: 2m 35s	remaining: 12.4s
463:	learn: 0.1971719	total: 2m 35s	remaining: 12.1s
464:	learn: 0.1971402	total: 2m 35s	remaining: 11.7s
465:	learn: 0.1970914	total: 2m 36s	remaining: 11.4s
466:	learn: 0.1970793	total: 2m 36s	remaining: 11.1s

467:	learn: 0.1970683	total: 2m 36s	remaining: 10.7s
468:	learn: 0.1969193	total: 2m 36s	remaining: 10.4s
469:	learn: 0.1968855	total: 2m 37s	remaining: 10s
470:	learn: 0.1967784	total: 2m 37s	remaining: 9.7s
471:	learn: 0.1967623	total: 2m 37s	remaining: 9.36s
472:	learn: 0.1966299	total: 2m 38s	remaining: 9.02s
473:	learn: 0.1965759	total: 2m 38s	remaining: 8.68s
474:	learn: 0.1965287	total: 2m 38s	remaining: 8.35s
475:	learn: 0.1965101	total: 2m 38s	remaining: 8.01s
476:	learn: 0.1964624	total: 2m 39s	remaining: 7.67s
477:	learn: 0.1963597	total: 2m 39s	remaining: 7.33s
478:	learn: 0.1963243	total: 2m 39s	remaining: 7s
479:	learn: 0.1962915	total: 2m 39s	remaining: 6.66s
480:	learn: 0.1962564	total: 2m 40s	remaining: 6.33s
481:	learn: 0.1961315	total: 2m 40s	remaining: 5.99s
482:	learn: 0.1961001	total: 2m 40s	remaining: 5.66s
483:	learn: 0.1960914	total: 2m 41s	remaining: 5.32s
484:	learn: 0.1960377	total: 2m 41s	remaining: 4.99s
485:	learn: 0.1959533	total: 2m 41s	remaining: 4.65s
486:	learn: 0.1959210	total: 2m 41s	remaining: 4.32s
487:	learn: 0.1958262	total: 2m 42s	remaining: 3.99s
488:	learn: 0.1957714	total: 2m 42s	remaining: 3.65s
489:	learn: 0.1957153	total: 2m 42s	remaining: 3.32s
490:	learn: 0.1956763	total: 2m 42s	remaining: 2.99s
491:	learn: 0.1955848	total: 2m 43s	remaining: 2.65s
492:	learn: 0.1955327	total: 2m 43s	remaining: 2.32s
493:	learn: 0.1954908	total: 2m 43s	remaining: 1.99s
494:	learn: 0.1954577	total: 2m 44s	remaining: 1.66s
495:	learn: 0.1953897	total: 2m 44s	remaining: 1.32s
496:	learn: 0.1953310	total: 2m 44s	remaining: 994ms
497:	learn: 0.1952793	total: 2m 44s	remaining: 662ms
498:	learn: 0.1952429	total: 2m 45s	remaining: 331ms
499:	learn: 0.1952108	total: 2m 45s	remaining: 0us

Learning rate set to 0.173965

0:	learn: 0.9728437	total: 258ms	remaining: 2m 8s
1:	learn: 0.8927035	total: 544ms	remaining: 2m 15s
2:	learn: 0.8340952	total: 831ms	remaining: 2m 17s
3:	learn: 0.7587345	total: 1.09s	remaining: 2m 15s
4:	learn: 0.7256208	total: 1.33s	remaining: 2m 11s
5:	learn: 0.6395940	total: 1.58s	remaining: 2m 9s
6:	learn: 0.5616072	total: 1.82s	remaining: 2m 8s
7:	learn: 0.5460436	total: 2.06s	remaining: 2m 6s
8:	learn: 0.4954239	total: 2.32s	remaining: 2m 6s
9:	learn: 0.4598326	total: 2.56s	remaining: 2m 5s
10:	learn: 0.4312779	total: 2.81s	remaining: 2m 4s
11:	learn: 0.4088447	total: 3.06s	remaining: 2m 4s
12:	learn: 0.3895046	total: 3.32s	remaining: 2m 4s
13:	learn: 0.3727037	total: 3.59s	remaining: 2m 4s

14:	learn: 0.3575528	total: 3.83s	remaining: 2m 3s
15:	learn: 0.3453903	total: 4.1s	remaining: 2m 3s
16:	learn: 0.3419503	total: 4.34s	remaining: 2m 3s
17:	learn: 0.3269698	total: 4.62s	remaining: 2m 3s
18:	learn: 0.3245485	total: 4.86s	remaining: 2m 3s
19:	learn: 0.3122883	total: 5.13s	remaining: 2m 3s
20:	learn: 0.3045225	total: 5.36s	remaining: 2m 2s
21:	learn: 0.2951434	total: 5.64s	remaining: 2m 2s
22:	learn: 0.2924169	total: 5.93s	remaining: 2m 3s
23:	learn: 0.2911730	total: 6.2s	remaining: 2m 3s
24:	learn: 0.2839395	total: 6.49s	remaining: 2m 3s
25:	learn: 0.2825849	total: 6.75s	remaining: 2m 3s
26:	learn: 0.2796233	total: 7.02s	remaining: 2m 2s
27:	learn: 0.2742031	total: 7.29s	remaining: 2m 2s
28:	learn: 0.2695843	total: 7.58s	remaining: 2m 3s
29:	learn: 0.2690160	total: 7.86s	remaining: 2m 3s
30:	learn: 0.2651649	total: 8.14s	remaining: 2m 3s
31:	learn: 0.2648472	total: 8.42s	remaining: 2m 3s
32:	learn: 0.2643183	total: 8.69s	remaining: 2m 2s
33:	learn: 0.2638577	total: 8.96s	remaining: 2m 2s
34:	learn: 0.2590704	total: 9.25s	remaining: 2m 2s
35:	learn: 0.2586088	total: 9.59s	remaining: 2m 3s
36:	learn: 0.2581839	total: 9.9s	remaining: 2m 3s
37:	learn: 0.2553393	total: 10.2s	remaining: 2m 3s
38:	learn: 0.2522710	total: 10.4s	remaining: 2m 3s
39:	learn: 0.2498017	total: 10.7s	remaining: 2m 2s
40:	learn: 0.2492829	total: 10.9s	remaining: 2m 2s
41:	learn: 0.2486685	total: 11.2s	remaining: 2m 2s
42:	learn: 0.2478017	total: 11.4s	remaining: 2m 1s
43:	learn: 0.2474123	total: 11.8s	remaining: 2m 1s
44:	learn: 0.2470629	total: 12s	remaining: 2m 1s
45:	learn: 0.2470124	total: 12.2s	remaining: 2m
46:	learn: 0.2464642	total: 12.5s	remaining: 2m
47:	learn: 0.2461963	total: 12.8s	remaining: 2m
48:	learn: 0.2458232	total: 13.1s	remaining: 2m
49:	learn: 0.2455060	total: 13.4s	remaining: 2m
50:	learn: 0.2451658	total: 13.7s	remaining: 2m
51:	learn: 0.2449346	total: 14s	remaining: 2m
52:	learn: 0.2446030	total: 14.2s	remaining: 1m 59s
53:	learn: 0.2442544	total: 14.5s	remaining: 1m 59s
54:	learn: 0.2431698	total: 14.8s	remaining: 1m 59s
55:	learn: 0.2429705	total: 15s	remaining: 1m 59s
56:	learn: 0.2425699	total: 15.4s	remaining: 1m 59s
57:	learn: 0.2420105	total: 15.7s	remaining: 1m 59s
58:	learn: 0.2413862	total: 16s	remaining: 1m 59s
59:	learn: 0.2408981	total: 16.3s	remaining: 1m 59s
60:	learn: 0.2406400	total: 16.5s	remaining: 1m 59s
61:	learn: 0.2403700	total: 16.8s	remaining: 1m 58s

62:	learn: 0.2401535	total: 17.1s	remaining: 1m 58s
63:	learn: 0.2382386	total: 17.4s	remaining: 1m 58s
64:	learn: 0.2380584	total: 17.6s	remaining: 1m 58s
65:	learn: 0.2379235	total: 17.9s	remaining: 1m 57s
66:	learn: 0.2374777	total: 18.2s	remaining: 1m 57s
67:	learn: 0.2370916	total: 18.5s	remaining: 1m 57s
68:	learn: 0.2368285	total: 18.7s	remaining: 1m 56s
69:	learn: 0.2356168	total: 18.9s	remaining: 1m 56s
70:	learn: 0.2354528	total: 19.2s	remaining: 1m 55s
71:	learn: 0.2353441	total: 19.4s	remaining: 1m 55s
72:	learn: 0.2351415	total: 19.7s	remaining: 1m 55s
73:	learn: 0.2344164	total: 20s	remaining: 1m 54s
74:	learn: 0.2341013	total: 20.2s	remaining: 1m 54s
75:	learn: 0.2339411	total: 20.5s	remaining: 1m 54s
76:	learn: 0.2338518	total: 20.7s	remaining: 1m 53s
77:	learn: 0.2335076	total: 21s	remaining: 1m 53s
78:	learn: 0.2334121	total: 21.3s	remaining: 1m 53s
79:	learn: 0.2333542	total: 21.5s	remaining: 1m 52s
80:	learn: 0.2332842	total: 21.8s	remaining: 1m 52s
81:	learn: 0.2308801	total: 22.1s	remaining: 1m 52s
82:	learn: 0.2307456	total: 22.3s	remaining: 1m 52s
83:	learn: 0.2305000	total: 22.6s	remaining: 1m 52s
84:	learn: 0.2302566	total: 22.9s	remaining: 1m 51s
85:	learn: 0.2300698	total: 23.2s	remaining: 1m 51s
86:	learn: 0.2284257	total: 23.5s	remaining: 1m 51s
87:	learn: 0.2282192	total: 23.7s	remaining: 1m 51s
88:	learn: 0.2270314	total: 24s	remaining: 1m 50s
89:	learn: 0.2269358	total: 24.3s	remaining: 1m 50s
90:	learn: 0.2268241	total: 24.6s	remaining: 1m 50s
91:	learn: 0.2266752	total: 24.9s	remaining: 1m 50s
92:	learn: 0.2266264	total: 25.1s	remaining: 1m 49s
93:	learn: 0.2265374	total: 25.4s	remaining: 1m 49s
94:	learn: 0.2264290	total: 25.7s	remaining: 1m 49s
95:	learn: 0.2264134	total: 26s	remaining: 1m 49s
96:	learn: 0.2262909	total: 26.3s	remaining: 1m 49s
97:	learn: 0.2261715	total: 26.6s	remaining: 1m 48s
98:	learn: 0.2258383	total: 26.9s	remaining: 1m 48s
99:	learn: 0.2257347	total: 27.1s	remaining: 1m 48s
100:	learn: 0.2256286	total: 27.4s	remaining: 1m 48s
101:	learn: 0.2255351	total: 27.7s	remaining: 1m 48s
102:	learn: 0.2252871	total: 28s	remaining: 1m 47s
103:	learn: 0.2252563	total: 28.3s	remaining: 1m 47s
104:	learn: 0.2251203	total: 28.5s	remaining: 1m 47s
105:	learn: 0.2249768	total: 28.8s	remaining: 1m 47s
106:	learn: 0.2248406	total: 29.1s	remaining: 1m 46s
107:	learn: 0.2247190	total: 29.3s	remaining: 1m 46s
108:	learn: 0.2245741	total: 29.6s	remaining: 1m 46s
109:	learn: 0.2244903	total: 29.9s	remaining: 1m 45s

110:	learn: 0.2243725	total: 30.2s	remaining: 1m 45s
111:	learn: 0.2243313	total: 30.4s	remaining: 1m 45s
112:	learn: 0.2242013	total: 30.7s	remaining: 1m 45s
113:	learn: 0.2241379	total: 31s	remaining: 1m 44s
114:	learn: 0.2239158	total: 31.3s	remaining: 1m 44s
115:	learn: 0.2221721	total: 31.5s	remaining: 1m 44s
116:	learn: 0.2221507	total: 31.8s	remaining: 1m 44s
117:	learn: 0.2220606	total: 32.1s	remaining: 1m 43s
118:	learn: 0.2219331	total: 32.4s	remaining: 1m 43s
119:	learn: 0.2218594	total: 32.7s	remaining: 1m 43s
120:	learn: 0.2218014	total: 32.9s	remaining: 1m 43s
121:	learn: 0.2217181	total: 33.2s	remaining: 1m 42s
122:	learn: 0.2214812	total: 33.5s	remaining: 1m 42s
123:	learn: 0.2214246	total: 33.7s	remaining: 1m 42s
124:	learn: 0.2213839	total: 34s	remaining: 1m 41s
125:	learn: 0.2213478	total: 34.2s	remaining: 1m 41s
126:	learn: 0.2213050	total: 34.4s	remaining: 1m 41s
127:	learn: 0.2212192	total: 34.7s	remaining: 1m 40s
128:	learn: 0.2210899	total: 35s	remaining: 1m 40s
129:	learn: 0.2210320	total: 35.2s	remaining: 1m 40s
130:	learn: 0.2208743	total: 35.5s	remaining: 1m 40s
131:	learn: 0.2193883	total: 35.8s	remaining: 1m 39s
132:	learn: 0.2192463	total: 36.1s	remaining: 1m 39s
133:	learn: 0.2191681	total: 36.4s	remaining: 1m 39s
134:	learn: 0.2191093	total: 36.6s	remaining: 1m 38s
135:	learn: 0.2189789	total: 36.9s	remaining: 1m 38s
136:	learn: 0.2189250	total: 37.1s	remaining: 1m 38s
137:	learn: 0.2188372	total: 37.3s	remaining: 1m 37s
138:	learn: 0.2186848	total: 37.6s	remaining: 1m 37s
139:	learn: 0.2186216	total: 37.8s	remaining: 1m 37s
140:	learn: 0.2184366	total: 38.1s	remaining: 1m 37s
141:	learn: 0.2183409	total: 38.4s	remaining: 1m 36s
142:	learn: 0.2182419	total: 38.6s	remaining: 1m 36s
143:	learn: 0.2181183	total: 38.9s	remaining: 1m 36s
144:	learn: 0.2179870	total: 39.2s	remaining: 1m 35s
145:	learn: 0.2178896	total: 39.4s	remaining: 1m 35s
146:	learn: 0.2178734	total: 39.7s	remaining: 1m 35s
147:	learn: 0.2178457	total: 39.9s	remaining: 1m 35s
148:	learn: 0.2177708	total: 40.2s	remaining: 1m 34s
149:	learn: 0.2177404	total: 40.4s	remaining: 1m 34s
150:	learn: 0.2177242	total: 40.7s	remaining: 1m 33s
151:	learn: 0.2176045	total: 40.9s	remaining: 1m 33s
152:	learn: 0.2175097	total: 41.2s	remaining: 1m 33s
153:	learn: 0.2174321	total: 41.5s	remaining: 1m 33s
154:	learn: 0.2171309	total: 41.8s	remaining: 1m 32s
155:	learn: 0.2170317	total: 42s	remaining: 1m 32s
156:	learn: 0.2169743	total: 42.3s	remaining: 1m 32s
157:	learn: 0.2167835	total: 42.6s	remaining: 1m 32s

158:	learn: 0.2167607	total: 42.8s	remaining: 1m 31s
159:	learn: 0.2165960	total: 43.1s	remaining: 1m 31s
160:	learn: 0.2165171	total: 43.4s	remaining: 1m 31s
161:	learn: 0.2164852	total: 43.7s	remaining: 1m 31s
162:	learn: 0.2164354	total: 44s	remaining: 1m 30s
163:	learn: 0.2163356	total: 44.3s	remaining: 1m 30s
164:	learn: 0.2162491	total: 44.5s	remaining: 1m 30s
165:	learn: 0.2161821	total: 44.8s	remaining: 1m 30s
166:	learn: 0.2161353	total: 45s	remaining: 1m 29s
167:	learn: 0.2160409	total: 45.3s	remaining: 1m 29s
168:	learn: 0.2159632	total: 45.5s	remaining: 1m 29s
169:	learn: 0.2158831	total: 45.8s	remaining: 1m 28s
170:	learn: 0.2158247	total: 46.1s	remaining: 1m 28s
171:	learn: 0.2155816	total: 46.3s	remaining: 1m 28s
172:	learn: 0.2154772	total: 46.6s	remaining: 1m 28s
173:	learn: 0.2154411	total: 46.9s	remaining: 1m 27s
174:	learn: 0.2153772	total: 47.2s	remaining: 1m 27s
175:	learn: 0.2151747	total: 47.4s	remaining: 1m 27s
176:	learn: 0.2150791	total: 47.7s	remaining: 1m 27s
177:	learn: 0.2149028	total: 48s	remaining: 1m 26s
178:	learn: 0.2148512	total: 48.3s	remaining: 1m 26s
179:	learn: 0.2148011	total: 48.5s	remaining: 1m 26s
180:	learn: 0.2147600	total: 48.8s	remaining: 1m 26s
181:	learn: 0.2146649	total: 49.1s	remaining: 1m 25s
182:	learn: 0.2145751	total: 49.3s	remaining: 1m 25s
183:	learn: 0.2145235	total: 49.5s	remaining: 1m 25s
184:	learn: 0.2144754	total: 49.8s	remaining: 1m 24s
185:	learn: 0.2144210	total: 50s	remaining: 1m 24s
186:	learn: 0.2143356	total: 50.2s	remaining: 1m 24s
187:	learn: 0.2143050	total: 50.5s	remaining: 1m 23s
188:	learn: 0.2142055	total: 50.7s	remaining: 1m 23s
189:	learn: 0.2141533	total: 51s	remaining: 1m 23s
190:	learn: 0.2140575	total: 51.3s	remaining: 1m 22s
191:	learn: 0.2139523	total: 51.5s	remaining: 1m 22s
192:	learn: 0.2139077	total: 51.7s	remaining: 1m 22s
193:	learn: 0.2138718	total: 52s	remaining: 1m 22s
194:	learn: 0.2138145	total: 52.2s	remaining: 1m 21s
195:	learn: 0.2137072	total: 52.5s	remaining: 1m 21s
196:	learn: 0.2136146	total: 52.8s	remaining: 1m 21s
197:	learn: 0.2135207	total: 53s	remaining: 1m 20s
198:	learn: 0.2133531	total: 53.3s	remaining: 1m 20s
199:	learn: 0.2132496	total: 53.5s	remaining: 1m 20s
200:	learn: 0.2131682	total: 53.8s	remaining: 1m 20s
201:	learn: 0.2130784	total: 54.1s	remaining: 1m 19s
202:	learn: 0.2130143	total: 54.4s	remaining: 1m 19s
203:	learn: 0.2129796	total: 54.7s	remaining: 1m 19s
204:	learn: 0.2128884	total: 55s	remaining: 1m 19s
205:	learn: 0.2128473	total: 55.2s	remaining: 1m 18s

206:	learn: 0.2127123	total: 55.5s	remaining: 1m 18s
207:	learn: 0.2126583	total: 55.8s	remaining: 1m 18s
208:	learn: 0.2125616	total: 56.1s	remaining: 1m 18s
209:	learn: 0.2125313	total: 56.4s	remaining: 1m 17s
210:	learn: 0.2125048	total: 56.7s	remaining: 1m 17s
211:	learn: 0.2124620	total: 56.9s	remaining: 1m 17s
212:	learn: 0.2124107	total: 57.2s	remaining: 1m 17s
213:	learn: 0.2123702	total: 57.5s	remaining: 1m 16s
214:	learn: 0.2122778	total: 57.8s	remaining: 1m 16s
215:	learn: 0.2122509	total: 58.1s	remaining: 1m 16s
216:	learn: 0.2122130	total: 58.3s	remaining: 1m 16s
217:	learn: 0.2121054	total: 58.6s	remaining: 1m 15s
218:	learn: 0.2120498	total: 58.8s	remaining: 1m 15s
219:	learn: 0.2112314	total: 59.1s	remaining: 1m 15s
220:	learn: 0.2110388	total: 59.4s	remaining: 1m 14s
221:	learn: 0.2109406	total: 59.6s	remaining: 1m 14s
222:	learn: 0.2109088	total: 59.9s	remaining: 1m 14s
223:	learn: 0.2106945	total: 1m	remaining: 1m 14s
224:	learn: 0.2106604	total: 1m	remaining: 1m 13s
225:	learn: 0.2105575	total: 1m	remaining: 1m 13s
226:	learn: 0.2105178	total: 1m	remaining: 1m 13s
227:	learn: 0.2104388	total: 1m 1s	remaining: 1m 13s
228:	learn: 0.2103738	total: 1m 1s	remaining: 1m 12s
229:	learn: 0.2103062	total: 1m 1s	remaining: 1m 12s
230:	learn: 0.2102217	total: 1m 2s	remaining: 1m 12s
231:	learn: 0.2100276	total: 1m 2s	remaining: 1m 12s
232:	learn: 0.2099762	total: 1m 2s	remaining: 1m 11s
233:	learn: 0.2098688	total: 1m 2s	remaining: 1m 11s
234:	learn: 0.2098308	total: 1m 3s	remaining: 1m 11s
235:	learn: 0.2098012	total: 1m 3s	remaining: 1m 10s
236:	learn: 0.2097104	total: 1m 3s	remaining: 1m 10s
237:	learn: 0.2096720	total: 1m 3s	remaining: 1m 10s
238:	learn: 0.2096454	total: 1m 4s	remaining: 1m 10s
239:	learn: 0.2095180	total: 1m 4s	remaining: 1m 9s
240:	learn: 0.2094925	total: 1m 4s	remaining: 1m 9s
241:	learn: 0.2093706	total: 1m 5s	remaining: 1m 9s
242:	learn: 0.2093571	total: 1m 5s	remaining: 1m 9s
243:	learn: 0.2092673	total: 1m 5s	remaining: 1m 8s
244:	learn: 0.2091733	total: 1m 5s	remaining: 1m 8s
245:	learn: 0.2090390	total: 1m 6s	remaining: 1m 8s
246:	learn: 0.2090186	total: 1m 6s	remaining: 1m 7s
247:	learn: 0.2086819	total: 1m 6s	remaining: 1m 7s
248:	learn: 0.2086452	total: 1m 6s	remaining: 1m 7s
249:	learn: 0.2085988	total: 1m 7s	remaining: 1m 7s
250:	learn: 0.2085641	total: 1m 7s	remaining: 1m 6s
251:	learn: 0.2084652	total: 1m 7s	remaining: 1m 6s
252:	learn: 0.2083288	total: 1m 7s	remaining: 1m 6s
253:	learn: 0.2083058	total: 1m 7s	remaining: 1m 5s

254:	learn: 0.2082766	total: 1m 8s	remaining: 1m 5s
255:	learn: 0.2082042	total: 1m 8s	remaining: 1m 5s
256:	learn: 0.2081408	total: 1m 8s	remaining: 1m 4s
257:	learn: 0.2080891	total: 1m 8s	remaining: 1m 4s
258:	learn: 0.2079661	total: 1m 9s	remaining: 1m 4s
259:	learn: 0.2079268	total: 1m 9s	remaining: 1m 4s
260:	learn: 0.2078987	total: 1m 9s	remaining: 1m 3s
261:	learn: 0.2078678	total: 1m 10s	remaining: 1m 3s
262:	learn: 0.2078003	total: 1m 10s	remaining: 1m 3s
263:	learn: 0.2077767	total: 1m 10s	remaining: 1m 3s
264:	learn: 0.2076838	total: 1m 10s	remaining: 1m 2s
265:	learn: 0.2076148	total: 1m 11s	remaining: 1m 2s
266:	learn: 0.2075791	total: 1m 11s	remaining: 1m 2s
267:	learn: 0.2075310	total: 1m 11s	remaining: 1m 1s
268:	learn: 0.2074755	total: 1m 11s	remaining: 1m 1s
269:	learn: 0.2074106	total: 1m 12s	remaining: 1m 1s
270:	learn: 0.2072596	total: 1m 12s	remaining: 1m 1s
271:	learn: 0.2072310	total: 1m 12s	remaining: 1m
272:	learn: 0.2072165	total: 1m 12s	remaining: 1m
273:	learn: 0.2072048	total: 1m 13s	remaining: 1m
274:	learn: 0.2071535	total: 1m 13s	remaining: 1m
275:	learn: 0.2070817	total: 1m 13s	remaining: 59.9s
276:	learn: 0.2069865	total: 1m 14s	remaining: 59.6s
277:	learn: 0.2069635	total: 1m 14s	remaining: 59.3s
278:	learn: 0.2069051	total: 1m 14s	remaining: 59s
279:	learn: 0.2067812	total: 1m 14s	remaining: 58.8s
280:	learn: 0.2067189	total: 1m 15s	remaining: 58.5s
281:	learn: 0.2065633	total: 1m 15s	remaining: 58.3s
282:	learn: 0.2065141	total: 1m 15s	remaining: 58s
283:	learn: 0.2064746	total: 1m 15s	remaining: 57.7s
284:	learn: 0.2064178	total: 1m 16s	remaining: 57.4s
285:	learn: 0.2063789	total: 1m 16s	remaining: 57.2s
286:	learn: 0.2063003	total: 1m 16s	remaining: 56.9s
287:	learn: 0.2062613	total: 1m 16s	remaining: 56.7s
288:	learn: 0.2062465	total: 1m 17s	remaining: 56.4s
289:	learn: 0.2061611	total: 1m 17s	remaining: 56.1s
290:	learn: 0.2060785	total: 1m 17s	remaining: 55.8s
291:	learn: 0.2060031	total: 1m 17s	remaining: 55.5s
292:	learn: 0.2059395	total: 1m 18s	remaining: 55.3s
293:	learn: 0.2059077	total: 1m 18s	remaining: 55s
294:	learn: 0.2058089	total: 1m 18s	remaining: 54.8s
295:	learn: 0.2057732	total: 1m 19s	remaining: 54.5s
296:	learn: 0.2056625	total: 1m 19s	remaining: 54.2s
297:	learn: 0.2054852	total: 1m 19s	remaining: 54s
298:	learn: 0.2054212	total: 1m 19s	remaining: 53.7s
299:	learn: 0.2053545	total: 1m 20s	remaining: 53.4s
300:	learn: 0.2052209	total: 1m 20s	remaining: 53.2s
301:	learn: 0.2051345	total: 1m 20s	remaining: 52.9s

302:	learn: 0.2050668	total: 1m 21s	remaining: 52.7s
303:	learn: 0.2049756	total: 1m 21s	remaining: 52.4s
304:	learn: 0.2049043	total: 1m 21s	remaining: 52.1s
305:	learn: 0.2048412	total: 1m 21s	remaining: 51.9s
306:	learn: 0.2047543	total: 1m 22s	remaining: 51.6s
307:	learn: 0.2047258	total: 1m 22s	remaining: 51.3s
308:	learn: 0.2047051	total: 1m 22s	remaining: 51s
309:	learn: 0.2046530	total: 1m 22s	remaining: 50.7s
310:	learn: 0.2046300	total: 1m 22s	remaining: 50.4s
311:	learn: 0.2045081	total: 1m 23s	remaining: 50.2s
312:	learn: 0.2044888	total: 1m 23s	remaining: 49.9s
313:	learn: 0.2044136	total: 1m 23s	remaining: 49.6s
314:	learn: 0.2043537	total: 1m 23s	remaining: 49.3s
315:	learn: 0.2043075	total: 1m 24s	remaining: 49s
316:	learn: 0.2042972	total: 1m 24s	remaining: 48.7s
317:	learn: 0.2041964	total: 1m 24s	remaining: 48.5s
318:	learn: 0.2041532	total: 1m 24s	remaining: 48.2s
319:	learn: 0.2040383	total: 1m 25s	remaining: 47.9s
320:	learn: 0.2039948	total: 1m 25s	remaining: 47.6s
321:	learn: 0.2039677	total: 1m 25s	remaining: 47.4s
322:	learn: 0.2039396	total: 1m 25s	remaining: 47.1s
323:	learn: 0.2037947	total: 1m 26s	remaining: 46.8s
324:	learn: 0.2036960	total: 1m 26s	remaining: 46.6s
325:	learn: 0.2036803	total: 1m 26s	remaining: 46.3s
326:	learn: 0.2035172	total: 1m 27s	remaining: 46.1s
327:	learn: 0.2035049	total: 1m 27s	remaining: 45.8s
328:	learn: 0.2034435	total: 1m 27s	remaining: 45.6s
329:	learn: 0.2033794	total: 1m 27s	remaining: 45.3s
330:	learn: 0.2032841	total: 1m 28s	remaining: 45.1s
331:	learn: 0.2032164	total: 1m 28s	remaining: 44.8s
332:	learn: 0.2031352	total: 1m 28s	remaining: 44.6s
333:	learn: 0.2031214	total: 1m 29s	remaining: 44.3s
334:	learn: 0.2030890	total: 1m 29s	remaining: 44s
335:	learn: 0.2030629	total: 1m 29s	remaining: 43.8s
336:	learn: 0.2030260	total: 1m 29s	remaining: 43.5s
337:	learn: 0.2029829	total: 1m 30s	remaining: 43.2s
338:	learn: 0.2029625	total: 1m 30s	remaining: 43s
339:	learn: 0.2029151	total: 1m 30s	remaining: 42.7s
340:	learn: 0.2029017	total: 1m 31s	remaining: 42.4s
341:	learn: 0.2028530	total: 1m 31s	remaining: 42.2s
342:	learn: 0.2027369	total: 1m 31s	remaining: 41.9s
343:	learn: 0.2026733	total: 1m 31s	remaining: 41.6s
344:	learn: 0.2026396	total: 1m 32s	remaining: 41.4s
345:	learn: 0.2025891	total: 1m 32s	remaining: 41.1s
346:	learn: 0.2025619	total: 1m 32s	remaining: 40.8s
347:	learn: 0.2025346	total: 1m 32s	remaining: 40.6s
348:	learn: 0.2025045	total: 1m 33s	remaining: 40.3s
349:	learn: 0.2024392	total: 1m 33s	remaining: 40.1s

350:	learn: 0.2023570	total: 1m 33s	remaining: 39.8s
351:	learn: 0.2023116	total: 1m 34s	remaining: 39.5s
352:	learn: 0.2022379	total: 1m 34s	remaining: 39.3s
353:	learn: 0.2020902	total: 1m 34s	remaining: 39s
354:	learn: 0.2020089	total: 1m 34s	remaining: 38.8s
355:	learn: 0.2019761	total: 1m 35s	remaining: 38.5s
356:	learn: 0.2018228	total: 1m 35s	remaining: 38.3s
357:	learn: 0.2017230	total: 1m 35s	remaining: 38s
358:	learn: 0.2016287	total: 1m 36s	remaining: 37.7s
359:	learn: 0.2015873	total: 1m 36s	remaining: 37.5s
360:	learn: 0.2015382	total: 1m 36s	remaining: 37.2s
361:	learn: 0.2015087	total: 1m 36s	remaining: 36.9s
362:	learn: 0.2014761	total: 1m 37s	remaining: 36.7s
363:	learn: 0.2014231	total: 1m 37s	remaining: 36.4s
364:	learn: 0.2012612	total: 1m 37s	remaining: 36.1s
365:	learn: 0.2011881	total: 1m 37s	remaining: 35.8s
366:	learn: 0.2011418	total: 1m 38s	remaining: 35.6s
367:	learn: 0.2011076	total: 1m 38s	remaining: 35.3s
368:	learn: 0.2010898	total: 1m 38s	remaining: 35s
369:	learn: 0.2010424	total: 1m 38s	remaining: 34.7s
370:	learn: 0.2009919	total: 1m 39s	remaining: 34.5s
371:	learn: 0.2009312	total: 1m 39s	remaining: 34.2s
372:	learn: 0.2008796	total: 1m 39s	remaining: 33.9s
373:	learn: 0.2008650	total: 1m 39s	remaining: 33.6s
374:	learn: 0.2007825	total: 1m 40s	remaining: 33.4s
375:	learn: 0.2007042	total: 1m 40s	remaining: 33.1s
376:	learn: 0.2006159	total: 1m 40s	remaining: 32.8s
377:	learn: 0.2005644	total: 1m 40s	remaining: 32.5s
378:	learn: 0.2004967	total: 1m 41s	remaining: 32.3s
379:	learn: 0.2004215	total: 1m 41s	remaining: 32s
380:	learn: 0.2003249	total: 1m 41s	remaining: 31.7s
381:	learn: 0.2002293	total: 1m 41s	remaining: 31.5s
382:	learn: 0.2001687	total: 1m 42s	remaining: 31.2s
383:	learn: 0.2001373	total: 1m 42s	remaining: 31s
384:	learn: 0.2001132	total: 1m 42s	remaining: 30.7s
385:	learn: 0.2000812	total: 1m 43s	remaining: 30.4s
386:	learn: 0.2000584	total: 1m 43s	remaining: 30.2s
387:	learn: 0.2000252	total: 1m 43s	remaining: 29.9s
388:	learn: 0.1999887	total: 1m 43s	remaining: 29.6s
389:	learn: 0.1999514	total: 1m 44s	remaining: 29.4s
390:	learn: 0.1998483	total: 1m 44s	remaining: 29.1s
391:	learn: 0.1998143	total: 1m 44s	remaining: 28.8s
392:	learn: 0.1997647	total: 1m 44s	remaining: 28.6s
393:	learn: 0.1996520	total: 1m 45s	remaining: 28.3s
394:	learn: 0.1996317	total: 1m 45s	remaining: 28.1s
395:	learn: 0.1996059	total: 1m 45s	remaining: 27.8s
396:	learn: 0.1995667	total: 1m 46s	remaining: 27.5s
397:	learn: 0.1994917	total: 1m 46s	remaining: 27.2s

398:	learn: 0.1994515	total: 1m 46s	remaining: 27s
399:	learn: 0.1993876	total: 1m 46s	remaining: 26.7s
400:	learn: 0.1993649	total: 1m 47s	remaining: 26.5s
401:	learn: 0.1992547	total: 1m 47s	remaining: 26.2s
402:	learn: 0.1992285	total: 1m 47s	remaining: 25.9s
403:	learn: 0.1991569	total: 1m 48s	remaining: 25.7s
404:	learn: 0.1991219	total: 1m 48s	remaining: 25.4s
405:	learn: 0.1990291	total: 1m 48s	remaining: 25.2s
406:	learn: 0.1989946	total: 1m 48s	remaining: 24.9s
407:	learn: 0.1987634	total: 1m 49s	remaining: 24.6s
408:	learn: 0.1987236	total: 1m 49s	remaining: 24.4s
409:	learn: 0.1987021	total: 1m 49s	remaining: 24.1s
410:	learn: 0.1985874	total: 1m 50s	remaining: 23.8s
411:	learn: 0.1985480	total: 1m 50s	remaining: 23.6s
412:	learn: 0.1984536	total: 1m 50s	remaining: 23.3s
413:	learn: 0.1984059	total: 1m 50s	remaining: 23s
414:	learn: 0.1983526	total: 1m 51s	remaining: 22.8s
415:	learn: 0.1983010	total: 1m 51s	remaining: 22.5s
416:	learn: 0.1982649	total: 1m 51s	remaining: 22.2s
417:	learn: 0.1981913	total: 1m 51s	remaining: 22s
418:	learn: 0.1980707	total: 1m 52s	remaining: 21.7s
419:	learn: 0.1979997	total: 1m 52s	remaining: 21.4s
420:	learn: 0.1979720	total: 1m 52s	remaining: 21.1s
421:	learn: 0.1979480	total: 1m 52s	remaining: 20.9s
422:	learn: 0.1978699	total: 1m 53s	remaining: 20.6s
423:	learn: 0.1978204	total: 1m 53s	remaining: 20.3s
424:	learn: 0.1977963	total: 1m 53s	remaining: 20.1s
425:	learn: 0.1977582	total: 1m 53s	remaining: 19.8s
426:	learn: 0.1976796	total: 1m 54s	remaining: 19.5s
427:	learn: 0.1975898	total: 1m 54s	remaining: 19.2s
428:	learn: 0.1975452	total: 1m 54s	remaining: 19s
429:	learn: 0.1975185	total: 1m 54s	remaining: 18.7s
430:	learn: 0.1974141	total: 1m 55s	remaining: 18.4s
431:	learn: 0.1973941	total: 1m 55s	remaining: 18.2s
432:	learn: 0.1973723	total: 1m 55s	remaining: 17.9s
433:	learn: 0.1973035	total: 1m 55s	remaining: 17.6s
434:	learn: 0.1972307	total: 1m 56s	remaining: 17.3s
435:	learn: 0.1971424	total: 1m 56s	remaining: 17.1s
436:	learn: 0.1970562	total: 1m 56s	remaining: 16.8s
437:	learn: 0.1970342	total: 1m 56s	remaining: 16.5s
438:	learn: 0.1969934	total: 1m 57s	remaining: 16.3s
439:	learn: 0.1969441	total: 1m 57s	remaining: 16s
440:	learn: 0.1968745	total: 1m 57s	remaining: 15.7s
441:	learn: 0.1968186	total: 1m 57s	remaining: 15.5s
442:	learn: 0.1967331	total: 1m 58s	remaining: 15.2s
443:	learn: 0.1966291	total: 1m 58s	remaining: 14.9s
444:	learn: 0.1965921	total: 1m 58s	remaining: 14.7s
445:	learn: 0.1965684	total: 1m 58s	remaining: 14.4s

446:	learn: 0.1965357	total: 1m 59s	remaining: 14.1s
447:	learn: 0.1964547	total: 1m 59s	remaining: 13.9s
448:	learn: 0.1964258	total: 1m 59s	remaining: 13.6s
449:	learn: 0.1963855	total: 1m 59s	remaining: 13.3s
450:	learn: 0.1963148	total: 2m	remaining: 13.1s
451:	learn: 0.1962506	total: 2m	remaining: 12.8s
452:	learn: 0.1962325	total: 2m	remaining: 12.5s
453:	learn: 0.1961795	total: 2m 1s	remaining: 12.3s
454:	learn: 0.1961262	total: 2m 1s	remaining: 12s
455:	learn: 0.1960924	total: 2m 1s	remaining: 11.7s
456:	learn: 0.1960472	total: 2m 1s	remaining: 11.5s
457:	learn: 0.1959808	total: 2m 2s	remaining: 11.2s
458:	learn: 0.1958739	total: 2m 2s	remaining: 10.9s
459:	learn: 0.1958264	total: 2m 2s	remaining: 10.7s
460:	learn: 0.1957868	total: 2m 3s	remaining: 10.4s
461:	learn: 0.1957426	total: 2m 3s	remaining: 10.1s
462:	learn: 0.1957113	total: 2m 3s	remaining: 9.88s
463:	learn: 0.1957026	total: 2m 3s	remaining: 9.61s
464:	learn: 0.1956841	total: 2m 4s	remaining: 9.34s
465:	learn: 0.1956201	total: 2m 4s	remaining: 9.07s
466:	learn: 0.1955446	total: 2m 4s	remaining: 8.81s
467:	learn: 0.1954903	total: 2m 4s	remaining: 8.54s
468:	learn: 0.1954334	total: 2m 5s	remaining: 8.27s
469:	learn: 0.1953955	total: 2m 5s	remaining: 8.01s
470:	learn: 0.1953108	total: 2m 5s	remaining: 7.74s
471:	learn: 0.1952262	total: 2m 6s	remaining: 7.48s
472:	learn: 0.1951903	total: 2m 6s	remaining: 7.21s
473:	learn: 0.1950890	total: 2m 6s	remaining: 6.94s
474:	learn: 0.1950585	total: 2m 6s	remaining: 6.68s
475:	learn: 0.1949492	total: 2m 7s	remaining: 6.41s
476:	learn: 0.1949141	total: 2m 7s	remaining: 6.14s
477:	learn: 0.1948999	total: 2m 7s	remaining: 5.87s
478:	learn: 0.1948316	total: 2m 7s	remaining: 5.61s
479:	learn: 0.1947861	total: 2m 8s	remaining: 5.34s
480:	learn: 0.1947102	total: 2m 8s	remaining: 5.08s
481:	learn: 0.1946282	total: 2m 8s	remaining: 4.81s
482:	learn: 0.1945949	total: 2m 8s	remaining: 4.54s
483:	learn: 0.1945105	total: 2m 9s	remaining: 4.27s
484:	learn: 0.1944239	total: 2m 9s	remaining: 4s
485:	learn: 0.1944059	total: 2m 9s	remaining: 3.74s
486:	learn: 0.1943362	total: 2m 9s	remaining: 3.47s
487:	learn: 0.1942719	total: 2m 10s	remaining: 3.2s
488:	learn: 0.1941548	total: 2m 10s	remaining: 2.93s
489:	learn: 0.1940753	total: 2m 10s	remaining: 2.67s
490:	learn: 0.1940653	total: 2m 10s	remaining: 2.4s
491:	learn: 0.1939938	total: 2m 11s	remaining: 2.13s
492:	learn: 0.1939643	total: 2m 11s	remaining: 1.87s
493:	learn: 0.1938946	total: 2m 11s	remaining: 1.6s

494:	learn: 0.1938382	total: 2m 11s	remaining: 1.33s
495:	learn: 0.1937885	total: 2m 12s	remaining: 1.07s
496:	learn: 0.1937720	total: 2m 12s	remaining: 800ms
497:	learn: 0.1937044	total: 2m 12s	remaining: 533ms
498:	learn: 0.1936813	total: 2m 12s	remaining: 266ms
499:	learn: 0.1936600	total: 2m 13s	remaining: 0us

Learning rate set to 0.173965

0:	learn: 0.9773338	total: 313ms	remaining: 2m 36s
1:	learn: 0.8954502	total: 596ms	remaining: 2m 28s
2:	learn: 0.8320173	total: 790ms	remaining: 2m 10s
3:	learn: 0.7871652	total: 976ms	remaining: 2m
4:	learn: 0.6811655	total: 1.19s	remaining: 1m 58s
5:	learn: 0.6570558	total: 1.41s	remaining: 1m 56s
6:	learn: 0.5808871	total: 1.63s	remaining: 1m 54s
7:	learn: 0.5437468	total: 1.84s	remaining: 1m 53s
8:	learn: 0.4951412	total: 2.06s	remaining: 1m 52s
9:	learn: 0.4548337	total: 2.27s	remaining: 1m 51s
10:	learn: 0.4456124	total: 2.48s	remaining: 1m 50s
11:	learn: 0.4159201	total: 2.7s	remaining: 1m 49s
12:	learn: 0.3905871	total: 2.91s	remaining: 1m 49s
13:	learn: 0.3697504	total: 3.18s	remaining: 1m 50s
14:	learn: 0.3538037	total: 3.47s	remaining: 1m 52s
15:	learn: 0.3395884	total: 3.77s	remaining: 1m 54s
16:	learn: 0.3277996	total: 4.05s	remaining: 1m 55s
17:	learn: 0.3251779	total: 4.35s	remaining: 1m 56s
18:	learn: 0.3148128	total: 4.67s	remaining: 1m 58s
19:	learn: 0.3068742	total: 4.96s	remaining: 1m 59s
20:	learn: 0.3034370	total: 5.25s	remaining: 1m 59s
21:	learn: 0.2994075	total: 5.52s	remaining: 1m 59s
22:	learn: 0.2938780	total: 5.83s	remaining: 2m
23:	learn: 0.2868766	total: 6.13s	remaining: 2m 1s
24:	learn: 0.2821617	total: 6.4s	remaining: 2m 1s
25:	learn: 0.2800034	total: 6.71s	remaining: 2m 2s
26:	learn: 0.2761813	total: 7.04s	remaining: 2m 3s
27:	learn: 0.2754336	total: 7.31s	remaining: 2m 3s
28:	learn: 0.2730535	total: 7.58s	remaining: 2m 3s
29:	learn: 0.2670468	total: 7.84s	remaining: 2m 2s
30:	learn: 0.2629233	total: 8.13s	remaining: 2m 2s
31:	learn: 0.2589164	total: 8.44s	remaining: 2m 3s
32:	learn: 0.2575631	total: 8.71s	remaining: 2m 3s
33:	learn: 0.2546900	total: 9s	remaining: 2m 3s
34:	learn: 0.2531556	total: 9.31s	remaining: 2m 3s
35:	learn: 0.2509007	total: 9.59s	remaining: 2m 3s
36:	learn: 0.2505890	total: 9.83s	remaining: 2m 3s
37:	learn: 0.2500959	total: 10.1s	remaining: 2m 2s
38:	learn: 0.2500161	total: 10.2s	remaining: 2m
39:	learn: 0.2494047	total: 10.4s	remaining: 1m 59s
40:	learn: 0.2488978	total: 10.7s	remaining: 1m 59s

41:	learn: 0.2485124	total: 10.9s	remaining: 1m 59s
42:	learn: 0.2470140	total: 11.2s	remaining: 1m 59s
43:	learn: 0.2447968	total: 11.5s	remaining: 1m 58s
44:	learn: 0.2444784	total: 11.7s	remaining: 1m 58s
45:	learn: 0.2432489	total: 12s	remaining: 1m 58s
46:	learn: 0.2426294	total: 12.2s	remaining: 1m 57s
47:	learn: 0.2424387	total: 12.5s	remaining: 1m 57s
48:	learn: 0.2421552	total: 12.7s	remaining: 1m 56s
49:	learn: 0.2419135	total: 13s	remaining: 1m 56s
50:	learn: 0.2409394	total: 13.3s	remaining: 1m 56s
51:	learn: 0.2407455	total: 13.5s	remaining: 1m 56s
52:	learn: 0.2399723	total: 13.8s	remaining: 1m 56s
53:	learn: 0.2397377	total: 14.1s	remaining: 1m 56s
54:	learn: 0.2394440	total: 14.3s	remaining: 1m 55s
55:	learn: 0.2392399	total: 14.6s	remaining: 1m 55s
56:	learn: 0.2387072	total: 14.8s	remaining: 1m 55s
57:	learn: 0.2381353	total: 15.1s	remaining: 1m 55s
58:	learn: 0.2379078	total: 15.3s	remaining: 1m 54s
59:	learn: 0.2374602	total: 15.6s	remaining: 1m 54s
60:	learn: 0.2363218	total: 15.9s	remaining: 1m 54s
61:	learn: 0.2354425	total: 16.2s	remaining: 1m 54s
62:	learn: 0.2345598	total: 16.5s	remaining: 1m 54s
63:	learn: 0.2342432	total: 16.7s	remaining: 1m 53s
64:	learn: 0.2340136	total: 17s	remaining: 1m 53s
65:	learn: 0.2338861	total: 17.3s	remaining: 1m 53s
66:	learn: 0.2334951	total: 17.5s	remaining: 1m 53s
67:	learn: 0.2333739	total: 17.8s	remaining: 1m 53s
68:	learn: 0.2326881	total: 18.1s	remaining: 1m 53s
69:	learn: 0.2326554	total: 18.4s	remaining: 1m 52s
70:	learn: 0.2325242	total: 18.6s	remaining: 1m 52s
71:	learn: 0.2322673	total: 18.9s	remaining: 1m 52s
72:	learn: 0.2307704	total: 19.2s	remaining: 1m 52s
73:	learn: 0.2306130	total: 19.4s	remaining: 1m 51s
74:	learn: 0.2304706	total: 19.7s	remaining: 1m 51s
75:	learn: 0.2301997	total: 19.9s	remaining: 1m 51s
76:	learn: 0.2298237	total: 20.2s	remaining: 1m 51s
77:	learn: 0.2296234	total: 20.5s	remaining: 1m 51s
78:	learn: 0.2295205	total: 20.8s	remaining: 1m 50s
79:	learn: 0.2293827	total: 21.1s	remaining: 1m 50s
80:	learn: 0.2292536	total: 21.4s	remaining: 1m 50s
81:	learn: 0.2291140	total: 21.6s	remaining: 1m 50s
82:	learn: 0.2289500	total: 21.9s	remaining: 1m 50s
83:	learn: 0.2287648	total: 22.2s	remaining: 1m 50s
84:	learn: 0.2273757	total: 22.6s	remaining: 1m 50s
85:	learn: 0.2272133	total: 22.8s	remaining: 1m 49s
86:	learn: 0.2269532	total: 23.1s	remaining: 1m 49s
87:	learn: 0.2268822	total: 23.4s	remaining: 1m 49s
88:	learn: 0.2267495	total: 23.6s	remaining: 1m 49s

89:	learn: 0.2266648	total: 23.9s	remaining: 1m 48s
90:	learn: 0.2266301	total: 24.2s	remaining: 1m 48s
91:	learn: 0.2265751	total: 24.5s	remaining: 1m 48s
92:	learn: 0.2261860	total: 24.7s	remaining: 1m 48s
93:	learn: 0.2261347	total: 25s	remaining: 1m 47s
94:	learn: 0.2260072	total: 25.3s	remaining: 1m 47s
95:	learn: 0.2258230	total: 25.5s	remaining: 1m 47s
96:	learn: 0.2257557	total: 25.8s	remaining: 1m 47s
97:	learn: 0.2256481	total: 26.1s	remaining: 1m 47s
98:	learn: 0.2254725	total: 26.4s	remaining: 1m 46s
99:	learn: 0.2252067	total: 26.7s	remaining: 1m 46s
100:	learn: 0.2250481	total: 26.9s	remaining: 1m 46s
101:	learn: 0.2248584	total: 27.2s	remaining: 1m 46s
102:	learn: 0.2247442	total: 27.4s	remaining: 1m 45s
103:	learn: 0.2245556	total: 27.7s	remaining: 1m 45s
104:	learn: 0.2244851	total: 28s	remaining: 1m 45s
105:	learn: 0.2240342	total: 28.2s	remaining: 1m 44s
106:	learn: 0.2239126	total: 28.5s	remaining: 1m 44s
107:	learn: 0.2238392	total: 28.7s	remaining: 1m 44s
108:	learn: 0.2237755	total: 29s	remaining: 1m 44s
109:	learn: 0.2235927	total: 29.2s	remaining: 1m 43s
110:	learn: 0.2232415	total: 29.5s	remaining: 1m 43s
111:	learn: 0.2231786	total: 29.7s	remaining: 1m 43s
112:	learn: 0.2229120	total: 30s	remaining: 1m 42s
113:	learn: 0.2227990	total: 30.3s	remaining: 1m 42s
114:	learn: 0.2226278	total: 30.5s	remaining: 1m 42s
115:	learn: 0.2225118	total: 30.8s	remaining: 1m 41s
116:	learn: 0.2224182	total: 31.1s	remaining: 1m 41s
117:	learn: 0.2223963	total: 31.3s	remaining: 1m 41s
118:	learn: 0.2223253	total: 31.6s	remaining: 1m 41s
119:	learn: 0.2222869	total: 31.8s	remaining: 1m 40s
120:	learn: 0.2221606	total: 32.1s	remaining: 1m 40s
121:	learn: 0.2220806	total: 32.4s	remaining: 1m 40s
122:	learn: 0.2219902	total: 32.7s	remaining: 1m 40s
123:	learn: 0.2219614	total: 32.9s	remaining: 1m 39s
124:	learn: 0.2218886	total: 33.2s	remaining: 1m 39s
125:	learn: 0.2217998	total: 33.5s	remaining: 1m 39s
126:	learn: 0.2216722	total: 33.8s	remaining: 1m 39s
127:	learn: 0.2215994	total: 34s	remaining: 1m 38s
128:	learn: 0.2215090	total: 34.3s	remaining: 1m 38s
129:	learn: 0.2213553	total: 34.6s	remaining: 1m 38s
130:	learn: 0.2212892	total: 34.8s	remaining: 1m 38s
131:	learn: 0.2211872	total: 35.1s	remaining: 1m 37s
132:	learn: 0.2211214	total: 35.4s	remaining: 1m 37s
133:	learn: 0.2210254	total: 35.7s	remaining: 1m 37s
134:	learn: 0.2209282	total: 36s	remaining: 1m 37s
135:	learn: 0.2208057	total: 36.3s	remaining: 1m 37s
136:	learn: 0.2207693	total: 36.5s	remaining: 1m 36s

137:	learn: 0.2205901	total: 36.8s	remaining: 1m 36s
138:	learn: 0.2205675	total: 37.1s	remaining: 1m 36s
139:	learn: 0.2204442	total: 37.4s	remaining: 1m 36s
140:	learn: 0.2203003	total: 37.7s	remaining: 1m 35s
141:	learn: 0.2200682	total: 38s	remaining: 1m 35s
142:	learn: 0.2199669	total: 38.3s	remaining: 1m 35s
143:	learn: 0.2195411	total: 38.5s	remaining: 1m 35s
144:	learn: 0.2193798	total: 38.8s	remaining: 1m 35s
145:	learn: 0.2192723	total: 39.1s	remaining: 1m 34s
146:	learn: 0.2191563	total: 39.4s	remaining: 1m 34s
147:	learn: 0.2190932	total: 39.7s	remaining: 1m 34s
148:	learn: 0.2190411	total: 39.9s	remaining: 1m 34s
149:	learn: 0.2189916	total: 40.2s	remaining: 1m 33s
150:	learn: 0.2189357	total: 40.5s	remaining: 1m 33s
151:	learn: 0.2178321	total: 40.8s	remaining: 1m 33s
152:	learn: 0.2177566	total: 41.1s	remaining: 1m 33s
153:	learn: 0.2177224	total: 41.3s	remaining: 1m 32s
154:	learn: 0.2175817	total: 41.6s	remaining: 1m 32s
155:	learn: 0.2175016	total: 41.9s	remaining: 1m 32s
156:	learn: 0.2173642	total: 42.2s	remaining: 1m 32s
157:	learn: 0.2173019	total: 42.5s	remaining: 1m 31s
158:	learn: 0.2172773	total: 42.7s	remaining: 1m 31s
159:	learn: 0.2171376	total: 43s	remaining: 1m 31s
160:	learn: 0.2170249	total: 43.2s	remaining: 1m 30s
161:	learn: 0.2169996	total: 43.5s	remaining: 1m 30s
162:	learn: 0.2169347	total: 43.7s	remaining: 1m 30s
163:	learn: 0.2169037	total: 43.9s	remaining: 1m 30s
164:	learn: 0.2168089	total: 44.2s	remaining: 1m 29s
165:	learn: 0.2167447	total: 44.5s	remaining: 1m 29s
166:	learn: 0.2167204	total: 44.7s	remaining: 1m 29s
167:	learn: 0.2166805	total: 44.9s	remaining: 1m 28s
168:	learn: 0.2166059	total: 45.2s	remaining: 1m 28s
169:	learn: 0.2160759	total: 45.5s	remaining: 1m 28s
170:	learn: 0.2159683	total: 45.7s	remaining: 1m 27s
171:	learn: 0.2159269	total: 46s	remaining: 1m 27s
172:	learn: 0.2158540	total: 46.2s	remaining: 1m 27s
173:	learn: 0.2158286	total: 46.5s	remaining: 1m 27s
174:	learn: 0.2157443	total: 46.7s	remaining: 1m 26s
175:	learn: 0.2157212	total: 47s	remaining: 1m 26s
176:	learn: 0.2156236	total: 47.2s	remaining: 1m 26s
177:	learn: 0.2155606	total: 47.5s	remaining: 1m 25s
178:	learn: 0.2154712	total: 47.8s	remaining: 1m 25s
179:	learn: 0.2152774	total: 48s	remaining: 1m 25s
180:	learn: 0.2152232	total: 48.3s	remaining: 1m 25s
181:	learn: 0.2151473	total: 48.6s	remaining: 1m 24s
182:	learn: 0.2150260	total: 48.9s	remaining: 1m 24s
183:	learn: 0.2149750	total: 49.2s	remaining: 1m 24s
184:	learn: 0.2148337	total: 49.5s	remaining: 1m 24s

185:	learn: 0.2146942	total: 49.8s	remaining: 1m 23s
186:	learn: 0.2145760	total: 50.1s	remaining: 1m 23s
187:	learn: 0.2144965	total: 50.3s	remaining: 1m 23s
188:	learn: 0.2144360	total: 50.6s	remaining: 1m 23s
189:	learn: 0.2143482	total: 50.9s	remaining: 1m 23s
190:	learn: 0.2142394	total: 51.2s	remaining: 1m 22s
191:	learn: 0.2141948	total: 51.4s	remaining: 1m 22s
192:	learn: 0.2138913	total: 51.7s	remaining: 1m 22s
193:	learn: 0.2138336	total: 51.9s	remaining: 1m 21s
194:	learn: 0.2137375	total: 52.2s	remaining: 1m 21s
195:	learn: 0.2129193	total: 52.5s	remaining: 1m 21s
196:	learn: 0.2128758	total: 52.8s	remaining: 1m 21s
197:	learn: 0.2128073	total: 53.1s	remaining: 1m 20s
198:	learn: 0.2127598	total: 53.4s	remaining: 1m 20s
199:	learn: 0.2126657	total: 53.7s	remaining: 1m 20s
200:	learn: 0.2125511	total: 54.1s	remaining: 1m 20s
201:	learn: 0.2125257	total: 54.3s	remaining: 1m 20s
202:	learn: 0.2124612	total: 54.6s	remaining: 1m 19s
203:	learn: 0.2124417	total: 54.9s	remaining: 1m 19s
204:	learn: 0.2124088	total: 55.2s	remaining: 1m 19s
205:	learn: 0.2123546	total: 55.5s	remaining: 1m 19s
206:	learn: 0.2123023	total: 55.9s	remaining: 1m 19s
207:	learn: 0.2117632	total: 56.1s	remaining: 1m 18s
208:	learn: 0.2117154	total: 56.4s	remaining: 1m 18s
209:	learn: 0.2116335	total: 56.7s	remaining: 1m 18s
210:	learn: 0.2116007	total: 57s	remaining: 1m 18s
211:	learn: 0.2113680	total: 57.2s	remaining: 1m 17s
212:	learn: 0.2113439	total: 57.5s	remaining: 1m 17s
213:	learn: 0.2112668	total: 57.7s	remaining: 1m 17s
214:	learn: 0.2111838	total: 58s	remaining: 1m 16s
215:	learn: 0.2111346	total: 58.3s	remaining: 1m 16s
216:	learn: 0.2110383	total: 58.6s	remaining: 1m 16s
217:	learn: 0.2109793	total: 58.8s	remaining: 1m 16s
218:	learn: 0.2109279	total: 59.1s	remaining: 1m 15s
219:	learn: 0.2108672	total: 59.3s	remaining: 1m 15s
220:	learn: 0.2107727	total: 59.6s	remaining: 1m 15s
221:	learn: 0.2107002	total: 59.9s	remaining: 1m 14s
222:	learn: 0.2106416	total: 1m	remaining: 1m 14s
223:	learn: 0.2105827	total: 1m	remaining: 1m 14s
224:	learn: 0.2105458	total: 1m	remaining: 1m 14s
225:	learn: 0.2103540	total: 1m	remaining: 1m 13s
226:	learn: 0.2103454	total: 1m 1s	remaining: 1m 13s
227:	learn: 0.2102815	total: 1m 1s	remaining: 1m 13s
228:	learn: 0.2101295	total: 1m 1s	remaining: 1m 13s
229:	learn: 0.2100592	total: 1m 1s	remaining: 1m 12s
230:	learn: 0.2099828	total: 1m 2s	remaining: 1m 12s
231:	learn: 0.2098819	total: 1m 2s	remaining: 1m 12s
232:	learn: 0.2097032	total: 1m 2s	remaining: 1m 11s

233:	learn: 0.2096076	total: 1m 2s	remaining: 1m 11s
234:	learn: 0.2095593	total: 1m 3s	remaining: 1m 11s
235:	learn: 0.2094812	total: 1m 3s	remaining: 1m 11s
236:	learn: 0.2094475	total: 1m 3s	remaining: 1m 10s
237:	learn: 0.2094231	total: 1m 4s	remaining: 1m 10s
238:	learn: 0.2093982	total: 1m 4s	remaining: 1m 10s
239:	learn: 0.2093675	total: 1m 4s	remaining: 1m 10s
240:	learn: 0.2092864	total: 1m 4s	remaining: 1m 9s
241:	learn: 0.2091426	total: 1m 5s	remaining: 1m 9s
242:	learn: 0.2090431	total: 1m 5s	remaining: 1m 9s
243:	learn: 0.2089474	total: 1m 5s	remaining: 1m 9s
244:	learn: 0.2088559	total: 1m 6s	remaining: 1m 8s
245:	learn: 0.2088163	total: 1m 6s	remaining: 1m 8s
246:	learn: 0.2087713	total: 1m 6s	remaining: 1m 8s
247:	learn: 0.2086776	total: 1m 6s	remaining: 1m 7s
248:	learn: 0.2086248	total: 1m 7s	remaining: 1m 7s
249:	learn: 0.2085239	total: 1m 7s	remaining: 1m 7s
250:	learn: 0.2084605	total: 1m 7s	remaining: 1m 7s
251:	learn: 0.2083846	total: 1m 7s	remaining: 1m 6s
252:	learn: 0.2083235	total: 1m 8s	remaining: 1m 6s
253:	learn: 0.2082498	total: 1m 8s	remaining: 1m 6s
254:	learn: 0.2081859	total: 1m 8s	remaining: 1m 6s
255:	learn: 0.2081482	total: 1m 8s	remaining: 1m 5s
256:	learn: 0.2081234	total: 1m 9s	remaining: 1m 5s
257:	learn: 0.2080864	total: 1m 9s	remaining: 1m 5s
258:	learn: 0.2080477	total: 1m 9s	remaining: 1m 4s
259:	learn: 0.2080118	total: 1m 10s	remaining: 1m 4s
260:	learn: 0.2079329	total: 1m 10s	remaining: 1m 4s
261:	learn: 0.2078047	total: 1m 10s	remaining: 1m 4s
262:	learn: 0.2077681	total: 1m 10s	remaining: 1m 3s
263:	learn: 0.2077392	total: 1m 11s	remaining: 1m 3s
264:	learn: 0.2077071	total: 1m 11s	remaining: 1m 3s
265:	learn: 0.2076059	total: 1m 11s	remaining: 1m 3s
266:	learn: 0.2075801	total: 1m 12s	remaining: 1m 2s
267:	learn: 0.2074996	total: 1m 12s	remaining: 1m 2s
268:	learn: 0.2073937	total: 1m 12s	remaining: 1m 2s
269:	learn: 0.2073005	total: 1m 12s	remaining: 1m 2s
270:	learn: 0.2072252	total: 1m 13s	remaining: 1m 1s
271:	learn: 0.2071809	total: 1m 13s	remaining: 1m 1s
272:	learn: 0.2071202	total: 1m 13s	remaining: 1m 1s
273:	learn: 0.2070406	total: 1m 14s	remaining: 1m 1s
274:	learn: 0.2069524	total: 1m 14s	remaining: 1m
275:	learn: 0.2068123	total: 1m 14s	remaining: 1m
276:	learn: 0.2067874	total: 1m 14s	remaining: 1m
277:	learn: 0.2067610	total: 1m 15s	remaining: 1m
278:	learn: 0.2067378	total: 1m 15s	remaining: 59.7s
279:	learn: 0.2067018	total: 1m 15s	remaining: 59.5s
280:	learn: 0.2066689	total: 1m 15s	remaining: 59.2s

281:	learn: 0.2065903	total: 1m 16s	remaining: 58.9s
282:	learn: 0.2065033	total: 1m 16s	remaining: 58.6s
283:	learn: 0.2064430	total: 1m 16s	remaining: 58.3s
284:	learn: 0.2064126	total: 1m 16s	remaining: 58s
285:	learn: 0.2063573	total: 1m 17s	remaining: 57.7s
286:	learn: 0.2063088	total: 1m 17s	remaining: 57.4s
287:	learn: 0.2062387	total: 1m 17s	remaining: 57.1s
288:	learn: 0.2061831	total: 1m 17s	remaining: 56.8s
289:	learn: 0.2061380	total: 1m 18s	remaining: 56.5s
290:	learn: 0.2059966	total: 1m 18s	remaining: 56.3s
291:	learn: 0.2059419	total: 1m 18s	remaining: 56s
292:	learn: 0.2059071	total: 1m 18s	remaining: 55.7s
293:	learn: 0.2058586	total: 1m 19s	remaining: 55.4s
294:	learn: 0.2057873	total: 1m 19s	remaining: 55.1s
295:	learn: 0.2056890	total: 1m 19s	remaining: 54.9s
296:	learn: 0.2050848	total: 1m 19s	remaining: 54.6s
297:	learn: 0.2049717	total: 1m 20s	remaining: 54.3s
298:	learn: 0.2048297	total: 1m 20s	remaining: 54.1s
299:	learn: 0.2047918	total: 1m 20s	remaining: 53.8s
300:	learn: 0.2046574	total: 1m 20s	remaining: 53.5s
301:	learn: 0.2046236	total: 1m 21s	remaining: 53.3s
302:	learn: 0.2045977	total: 1m 21s	remaining: 53s
303:	learn: 0.2045746	total: 1m 21s	remaining: 52.8s
304:	learn: 0.2044969	total: 1m 22s	remaining: 52.5s
305:	learn: 0.2044775	total: 1m 22s	remaining: 52.2s
306:	learn: 0.2044454	total: 1m 22s	remaining: 51.9s
307:	learn: 0.2044086	total: 1m 22s	remaining: 51.7s
308:	learn: 0.2043427	total: 1m 23s	remaining: 51.4s
309:	learn: 0.2043082	total: 1m 23s	remaining: 51.2s
310:	learn: 0.2042802	total: 1m 23s	remaining: 50.9s
311:	learn: 0.2042032	total: 1m 24s	remaining: 50.7s
312:	learn: 0.2041608	total: 1m 24s	remaining: 50.4s
313:	learn: 0.2040596	total: 1m 24s	remaining: 50.1s
314:	learn: 0.2037969	total: 1m 24s	remaining: 49.9s
315:	learn: 0.2037695	total: 1m 25s	remaining: 49.6s
316:	learn: 0.2037386	total: 1m 25s	remaining: 49.3s
317:	learn: 0.2037051	total: 1m 25s	remaining: 49.1s
318:	learn: 0.2036822	total: 1m 26s	remaining: 48.8s
319:	learn: 0.2036410	total: 1m 26s	remaining: 48.5s
320:	learn: 0.2035188	total: 1m 26s	remaining: 48.3s
321:	learn: 0.2034347	total: 1m 26s	remaining: 48s
322:	learn: 0.2033832	total: 1m 27s	remaining: 47.7s
323:	learn: 0.2033176	total: 1m 27s	remaining: 47.5s
324:	learn: 0.2033030	total: 1m 27s	remaining: 47.2s
325:	learn: 0.2032746	total: 1m 27s	remaining: 46.9s
326:	learn: 0.2031528	total: 1m 28s	remaining: 46.6s
327:	learn: 0.2030764	total: 1m 28s	remaining: 46.4s
328:	learn: 0.2029577	total: 1m 28s	remaining: 46.1s

329:	learn: 0.2029118	total: 1m 29s	remaining: 45.9s
330:	learn: 0.2028451	total: 1m 29s	remaining: 45.6s
331:	learn: 0.2025574	total: 1m 29s	remaining: 45.3s
332:	learn: 0.2024956	total: 1m 29s	remaining: 45s
333:	learn: 0.2024693	total: 1m 30s	remaining: 44.8s
334:	learn: 0.2024473	total: 1m 30s	remaining: 44.5s
335:	learn: 0.2023818	total: 1m 30s	remaining: 44.2s
336:	learn: 0.2022831	total: 1m 30s	remaining: 43.9s
337:	learn: 0.2022527	total: 1m 31s	remaining: 43.7s
338:	learn: 0.2021742	total: 1m 31s	remaining: 43.4s
339:	learn: 0.2021535	total: 1m 31s	remaining: 43.1s
340:	learn: 0.2020741	total: 1m 31s	remaining: 42.9s
341:	learn: 0.2020517	total: 1m 32s	remaining: 42.6s
342:	learn: 0.2019915	total: 1m 32s	remaining: 42.3s
343:	learn: 0.2019520	total: 1m 32s	remaining: 42s
344:	learn: 0.2019351	total: 1m 32s	remaining: 41.7s
345:	learn: 0.2018338	total: 1m 33s	remaining: 41.5s
346:	learn: 0.2018007	total: 1m 33s	remaining: 41.2s
347:	learn: 0.2016810	total: 1m 33s	remaining: 40.9s
348:	learn: 0.2016291	total: 1m 33s	remaining: 40.6s
349:	learn: 0.2015883	total: 1m 34s	remaining: 40.3s
350:	learn: 0.2014976	total: 1m 34s	remaining: 40.1s
351:	learn: 0.2014016	total: 1m 34s	remaining: 39.8s
352:	learn: 0.2013280	total: 1m 34s	remaining: 39.5s
353:	learn: 0.2011973	total: 1m 35s	remaining: 39.3s
354:	learn: 0.2010738	total: 1m 35s	remaining: 39s
355:	learn: 0.2010107	total: 1m 35s	remaining: 38.7s
356:	learn: 0.2009423	total: 1m 35s	remaining: 38.4s
357:	learn: 0.2009087	total: 1m 36s	remaining: 38.2s
358:	learn: 0.2008188	total: 1m 36s	remaining: 37.9s
359:	learn: 0.2007635	total: 1m 36s	remaining: 37.6s
360:	learn: 0.2006949	total: 1m 37s	remaining: 37.4s
361:	learn: 0.2006538	total: 1m 37s	remaining: 37.1s
362:	learn: 0.2005679	total: 1m 37s	remaining: 36.8s
363:	learn: 0.2005388	total: 1m 37s	remaining: 36.5s
364:	learn: 0.2004916	total: 1m 38s	remaining: 36.3s
365:	learn: 0.2001293	total: 1m 38s	remaining: 36s
366:	learn: 0.2001064	total: 1m 38s	remaining: 35.7s
367:	learn: 0.2000369	total: 1m 38s	remaining: 35.5s
368:	learn: 0.1999710	total: 1m 39s	remaining: 35.2s
369:	learn: 0.1999113	total: 1m 39s	remaining: 34.9s
370:	learn: 0.1998368	total: 1m 39s	remaining: 34.7s
371:	learn: 0.1997984	total: 1m 40s	remaining: 34.4s
372:	learn: 0.1997188	total: 1m 40s	remaining: 34.1s
373:	learn: 0.1996767	total: 1m 40s	remaining: 33.9s
374:	learn: 0.1995961	total: 1m 40s	remaining: 33.6s
375:	learn: 0.1995581	total: 1m 41s	remaining: 33.3s
376:	learn: 0.1992712	total: 1m 41s	remaining: 33.1s

377:	learn: 0.1992229	total: 1m 41s	remaining: 32.8s
378:	learn: 0.1991700	total: 1m 41s	remaining: 32.5s
379:	learn: 0.1991129	total: 1m 42s	remaining: 32.3s
380:	learn: 0.1990556	total: 1m 42s	remaining: 32s
381:	learn: 0.1989912	total: 1m 42s	remaining: 31.7s
382:	learn: 0.1989594	total: 1m 42s	remaining: 31.5s
383:	learn: 0.1989270	total: 1m 43s	remaining: 31.2s
384:	learn: 0.1988865	total: 1m 43s	remaining: 30.9s
385:	learn: 0.1988263	total: 1m 43s	remaining: 30.6s
386:	learn: 0.1987779	total: 1m 44s	remaining: 30.4s
387:	learn: 0.1987559	total: 1m 44s	remaining: 30.1s
388:	learn: 0.1986844	total: 1m 44s	remaining: 29.8s
389:	learn: 0.1986409	total: 1m 44s	remaining: 29.6s
390:	learn: 0.1985712	total: 1m 45s	remaining: 29.3s
391:	learn: 0.1985394	total: 1m 45s	remaining: 29s
392:	learn: 0.1985253	total: 1m 45s	remaining: 28.8s
393:	learn: 0.1983370	total: 1m 45s	remaining: 28.5s
394:	learn: 0.1982807	total: 1m 46s	remaining: 28.2s
395:	learn: 0.1982497	total: 1m 46s	remaining: 28s
396:	learn: 0.1982050	total: 1m 46s	remaining: 27.7s
397:	learn: 0.1980846	total: 1m 47s	remaining: 27.4s
398:	learn: 0.1979947	total: 1m 47s	remaining: 27.2s
399:	learn: 0.1979391	total: 1m 47s	remaining: 26.9s
400:	learn: 0.1979213	total: 1m 47s	remaining: 26.6s
401:	learn: 0.1979002	total: 1m 48s	remaining: 26.4s
402:	learn: 0.1978509	total: 1m 48s	remaining: 26.1s
403:	learn: 0.1977648	total: 1m 48s	remaining: 25.8s
404:	learn: 0.1976968	total: 1m 48s	remaining: 25.5s
405:	learn: 0.1976033	total: 1m 49s	remaining: 25.3s
406:	learn: 0.1975508	total: 1m 49s	remaining: 25s
407:	learn: 0.1974854	total: 1m 49s	remaining: 24.7s
408:	learn: 0.1974091	total: 1m 49s	remaining: 24.4s
409:	learn: 0.1973288	total: 1m 50s	remaining: 24.2s
410:	learn: 0.1972606	total: 1m 50s	remaining: 23.9s
411:	learn: 0.1971420	total: 1m 50s	remaining: 23.6s
412:	learn: 0.1971053	total: 1m 50s	remaining: 23.4s
413:	learn: 0.1970630	total: 1m 51s	remaining: 23.1s
414:	learn: 0.1969733	total: 1m 51s	remaining: 22.8s
415:	learn: 0.1969591	total: 1m 51s	remaining: 22.6s
416:	learn: 0.1969252	total: 1m 52s	remaining: 22.3s
417:	learn: 0.1968923	total: 1m 52s	remaining: 22s
418:	learn: 0.1968386	total: 1m 52s	remaining: 21.8s
419:	learn: 0.1968047	total: 1m 52s	remaining: 21.5s
420:	learn: 0.1967037	total: 1m 53s	remaining: 21.2s
421:	learn: 0.1966506	total: 1m 53s	remaining: 21s
422:	learn: 0.1966336	total: 1m 53s	remaining: 20.7s
423:	learn: 0.1965736	total: 1m 54s	remaining: 20.4s
424:	learn: 0.1965213	total: 1m 54s	remaining: 20.2s

425:	learn: 0.1964529	total: 1m 54s	remaining: 19.9s
426:	learn: 0.1964227	total: 1m 54s	remaining: 19.6s
427:	learn: 0.1963419	total: 1m 55s	remaining: 19.4s
428:	learn: 0.1963178	total: 1m 55s	remaining: 19.1s
429:	learn: 0.1962342	total: 1m 55s	remaining: 18.8s
430:	learn: 0.1961946	total: 1m 55s	remaining: 18.6s
431:	learn: 0.1961697	total: 1m 56s	remaining: 18.3s
432:	learn: 0.1961259	total: 1m 56s	remaining: 18s
433:	learn: 0.1960925	total: 1m 56s	remaining: 17.8s
434:	learn: 0.1960238	total: 1m 57s	remaining: 17.5s
435:	learn: 0.1959825	total: 1m 57s	remaining: 17.2s
436:	learn: 0.1959493	total: 1m 57s	remaining: 16.9s
437:	learn: 0.1958487	total: 1m 57s	remaining: 16.7s
438:	learn: 0.1956897	total: 1m 58s	remaining: 16.4s
439:	learn: 0.1956468	total: 1m 58s	remaining: 16.1s
440:	learn: 0.1955844	total: 1m 58s	remaining: 15.9s
441:	learn: 0.1955758	total: 1m 58s	remaining: 15.6s
442:	learn: 0.1955206	total: 1m 59s	remaining: 15.3s
443:	learn: 0.1954800	total: 1m 59s	remaining: 15.1s
444:	learn: 0.1953825	total: 1m 59s	remaining: 14.8s
445:	learn: 0.1953421	total: 1m 59s	remaining: 14.5s
446:	learn: 0.1952457	total: 2m	remaining: 14.3s
447:	learn: 0.1951930	total: 2m	remaining: 14s
448:	learn: 0.1951352	total: 2m	remaining: 13.7s
449:	learn: 0.1950937	total: 2m 1s	remaining: 13.5s
450:	learn: 0.1948638	total: 2m 1s	remaining: 13.2s
451:	learn: 0.1948000	total: 2m 1s	remaining: 12.9s
452:	learn: 0.1947666	total: 2m 1s	remaining: 12.7s
453:	learn: 0.1946777	total: 2m 2s	remaining: 12.4s
454:	learn: 0.1946092	total: 2m 2s	remaining: 12.1s
455:	learn: 0.1945936	total: 2m 2s	remaining: 11.8s
456:	learn: 0.1945150	total: 2m 3s	remaining: 11.6s
457:	learn: 0.1944520	total: 2m 3s	remaining: 11.3s
458:	learn: 0.1944033	total: 2m 3s	remaining: 11s
459:	learn: 0.1943145	total: 2m 3s	remaining: 10.8s
460:	learn: 0.1942912	total: 2m 3s	remaining: 10.5s
461:	learn: 0.1942425	total: 2m 4s	remaining: 10.2s
462:	learn: 0.1941991	total: 2m 4s	remaining: 9.94s
463:	learn: 0.1941330	total: 2m 4s	remaining: 9.67s
464:	learn: 0.1940325	total: 2m 4s	remaining: 9.4s
465:	learn: 0.1940051	total: 2m 5s	remaining: 9.13s
466:	learn: 0.1939556	total: 2m 5s	remaining: 8.86s
467:	learn: 0.1939294	total: 2m 5s	remaining: 8.59s
468:	learn: 0.1938525	total: 2m 5s	remaining: 8.32s
469:	learn: 0.1938340	total: 2m 6s	remaining: 8.05s
470:	learn: 0.1937724	total: 2m 6s	remaining: 7.78s
471:	learn: 0.1936391	total: 2m 6s	remaining: 7.51s
472:	learn: 0.1935888	total: 2m 6s	remaining: 7.25s

473:	learn: 0.1935310	total: 2m 7s	remaining: 6.98s
474:	learn: 0.1933872	total: 2m 7s	remaining: 6.71s
475:	learn: 0.1932876	total: 2m 7s	remaining: 6.44s
476:	learn: 0.1932611	total: 2m 8s	remaining: 6.17s
477:	learn: 0.1932370	total: 2m 8s	remaining: 5.9s
478:	learn: 0.1932059	total: 2m 8s	remaining: 5.63s
479:	learn: 0.1931688	total: 2m 8s	remaining: 5.36s
480:	learn: 0.1931325	total: 2m 9s	remaining: 5.1s
481:	learn: 0.1930760	total: 2m 9s	remaining: 4.83s
482:	learn: 0.1930414	total: 2m 9s	remaining: 4.56s
483:	learn: 0.1929953	total: 2m 9s	remaining: 4.29s
484:	learn: 0.1929216	total: 2m 10s	remaining: 4.02s
485:	learn: 0.1929083	total: 2m 10s	remaining: 3.75s
486:	learn: 0.1928604	total: 2m 10s	remaining: 3.48s
487:	learn: 0.1928070	total: 2m 10s	remaining: 3.22s
488:	learn: 0.1927252	total: 2m 11s	remaining: 2.95s
489:	learn: 0.1927129	total: 2m 11s	remaining: 2.68s
490:	learn: 0.1926715	total: 2m 11s	remaining: 2.41s
491:	learn: 0.1925852	total: 2m 11s	remaining: 2.15s
492:	learn: 0.1925595	total: 2m 12s	remaining: 1.88s
493:	learn: 0.1924903	total: 2m 12s	remaining: 1.61s
494:	learn: 0.1924522	total: 2m 12s	remaining: 1.34s
495:	learn: 0.1924294	total: 2m 13s	remaining: 1.07s
496:	learn: 0.1923961	total: 2m 13s	remaining: 804ms
497:	learn: 0.1923663	total: 2m 13s	remaining: 536ms
498:	learn: 0.1923040	total: 2m 13s	remaining: 268ms
499:	learn: 0.1922764	total: 2m 14s	remaining: 0us

Learning rate set to 0.173965

0:	learn: 0.9742959	total: 274ms	remaining: 2m 16s
1:	learn: 0.8958650	total: 520ms	remaining: 2m 9s
2:	learn: 0.8382540	total: 710ms	remaining: 1m 57s
3:	learn: 0.7927891	total: 920ms	remaining: 1m 54s
4:	learn: 0.7570612	total: 1.13s	remaining: 1m 51s
5:	learn: 0.6538657	total: 1.33s	remaining: 1m 49s
6:	learn: 0.5821171	total: 1.54s	remaining: 1m 48s
7:	learn: 0.5582873	total: 1.73s	remaining: 1m 46s
8:	learn: 0.5070054	total: 1.95s	remaining: 1m 46s
9:	learn: 0.4665556	total: 2.16s	remaining: 1m 46s
10:	learn: 0.4345563	total: 2.35s	remaining: 1m 44s
11:	learn: 0.4096847	total: 2.55s	remaining: 1m 43s
12:	learn: 0.3881112	total: 2.73s	remaining: 1m 42s
13:	learn: 0.3706118	total: 2.92s	remaining: 1m 41s
14:	learn: 0.3566568	total: 3.19s	remaining: 1m 43s
15:	learn: 0.3471927	total: 3.43s	remaining: 1m 43s
16:	learn: 0.3321171	total: 3.71s	remaining: 1m 45s
17:	learn: 0.3174806	total: 3.98s	remaining: 1m 46s
18:	learn: 0.3142890	total: 4.23s	remaining: 1m 47s
19:	learn: 0.3119400	total: 4.46s	remaining: 1m 47s

20:	learn: 0.3087293	total: 4.7s	remaining: 1m 47s
21:	learn: 0.2992666	total: 4.99s	remaining: 1m 48s
22:	learn: 0.2912799	total: 5.24s	remaining: 1m 48s
23:	learn: 0.2829460	total: 5.53s	remaining: 1m 49s
24:	learn: 0.2811735	total: 5.77s	remaining: 1m 49s
25:	learn: 0.2748792	total: 6.02s	remaining: 1m 49s
26:	learn: 0.2695606	total: 6.26s	remaining: 1m 49s
27:	learn: 0.2654189	total: 6.51s	remaining: 1m 49s
28:	learn: 0.2636640	total: 6.76s	remaining: 1m 49s
29:	learn: 0.2630566	total: 7s	remaining: 1m 49s
30:	learn: 0.2602935	total: 7.26s	remaining: 1m 49s
31:	learn: 0.2570528	total: 7.51s	remaining: 1m 49s
32:	learn: 0.2566071	total: 7.75s	remaining: 1m 49s
33:	learn: 0.2548086	total: 8s	remaining: 1m 49s
34:	learn: 0.2542241	total: 8.26s	remaining: 1m 49s
35:	learn: 0.2536279	total: 8.54s	remaining: 1m 50s
36:	learn: 0.2531007	total: 8.81s	remaining: 1m 50s
37:	learn: 0.2526861	total: 9.1s	remaining: 1m 50s
38:	learn: 0.2520983	total: 9.38s	remaining: 1m 50s
39:	learn: 0.2513892	total: 9.67s	remaining: 1m 51s
40:	learn: 0.2484528	total: 9.99s	remaining: 1m 51s
41:	learn: 0.2465423	total: 10.3s	remaining: 1m 51s
42:	learn: 0.2460712	total: 10.6s	remaining: 1m 52s
43:	learn: 0.2451342	total: 10.8s	remaining: 1m 52s
44:	learn: 0.2447172	total: 11.1s	remaining: 1m 51s
45:	learn: 0.2443071	total: 11.3s	remaining: 1m 51s
46:	learn: 0.2436492	total: 11.6s	remaining: 1m 51s
47:	learn: 0.2433662	total: 11.9s	remaining: 1m 51s
48:	learn: 0.2431148	total: 12.2s	remaining: 1m 51s
49:	learn: 0.2428102	total: 12.4s	remaining: 1m 51s
50:	learn: 0.2425795	total: 12.7s	remaining: 1m 51s
51:	learn: 0.2423265	total: 13s	remaining: 1m 51s
52:	learn: 0.2420555	total: 13.2s	remaining: 1m 51s
53:	learn: 0.2418731	total: 13.5s	remaining: 1m 51s
54:	learn: 0.2416965	total: 13.8s	remaining: 1m 51s
55:	learn: 0.2410378	total: 14s	remaining: 1m 51s
56:	learn: 0.2408243	total: 14.3s	remaining: 1m 51s
57:	learn: 0.2406124	total: 14.6s	remaining: 1m 51s
58:	learn: 0.2399557	total: 14.9s	remaining: 1m 51s
59:	learn: 0.2393492	total: 15.1s	remaining: 1m 51s
60:	learn: 0.2390054	total: 15.4s	remaining: 1m 51s
61:	learn: 0.2383933	total: 15.7s	remaining: 1m 51s
62:	learn: 0.2374864	total: 16s	remaining: 1m 50s
63:	learn: 0.2374006	total: 16.2s	remaining: 1m 50s
64:	learn: 0.2372392	total: 16.5s	remaining: 1m 50s
65:	learn: 0.2370813	total: 16.8s	remaining: 1m 50s
66:	learn: 0.2367626	total: 17.1s	remaining: 1m 50s
67:	learn: 0.2365441	total: 17.4s	remaining: 1m 50s

68:	learn: 0.2363644	total: 17.6s	remaining: 1m 50s
69:	learn: 0.2361471	total: 17.9s	remaining: 1m 49s
70:	learn: 0.2357787	total: 18.1s	remaining: 1m 49s
71:	learn: 0.2356874	total: 18.4s	remaining: 1m 49s
72:	learn: 0.2356163	total: 18.7s	remaining: 1m 49s
73:	learn: 0.2354536	total: 18.9s	remaining: 1m 49s
74:	learn: 0.2352804	total: 19.2s	remaining: 1m 48s
75:	learn: 0.2348999	total: 19.5s	remaining: 1m 48s
76:	learn: 0.2346794	total: 19.7s	remaining: 1m 48s
77:	learn: 0.2345131	total: 20s	remaining: 1m 48s
78:	learn: 0.2343029	total: 20.2s	remaining: 1m 47s
79:	learn: 0.2340992	total: 20.5s	remaining: 1m 47s
80:	learn: 0.2339659	total: 20.7s	remaining: 1m 47s
81:	learn: 0.2339294	total: 21s	remaining: 1m 46s
82:	learn: 0.2337825	total: 21.2s	remaining: 1m 46s
83:	learn: 0.2337223	total: 21.4s	remaining: 1m 46s
84:	learn: 0.2336841	total: 21.7s	remaining: 1m 45s
85:	learn: 0.2336384	total: 21.9s	remaining: 1m 45s
86:	learn: 0.2335292	total: 22.2s	remaining: 1m 45s
87:	learn: 0.2334023	total: 22.4s	remaining: 1m 44s
88:	learn: 0.2332762	total: 22.7s	remaining: 1m 44s
89:	learn: 0.2332551	total: 22.9s	remaining: 1m 44s
90:	learn: 0.2330287	total: 23.1s	remaining: 1m 43s
91:	learn: 0.2328139	total: 23.4s	remaining: 1m 43s
92:	learn: 0.2327317	total: 23.6s	remaining: 1m 43s
93:	learn: 0.2326505	total: 23.9s	remaining: 1m 43s
94:	learn: 0.2324854	total: 24.1s	remaining: 1m 42s
95:	learn: 0.2324076	total: 24.4s	remaining: 1m 42s
96:	learn: 0.2323144	total: 24.7s	remaining: 1m 42s
97:	learn: 0.2322587	total: 25s	remaining: 1m 42s
98:	learn: 0.2321751	total: 25.3s	remaining: 1m 42s
99:	learn: 0.2320320	total: 25.6s	remaining: 1m 42s
100:	learn: 0.2319381	total: 25.8s	remaining: 1m 41s
101:	learn: 0.2318894	total: 26.1s	remaining: 1m 41s
102:	learn: 0.2318025	total: 26.3s	remaining: 1m 41s
103:	learn: 0.2317701	total: 26.6s	remaining: 1m 41s
104:	learn: 0.2317410	total: 26.9s	remaining: 1m 41s
105:	learn: 0.2317111	total: 27.1s	remaining: 1m 40s
106:	learn: 0.2315276	total: 27.4s	remaining: 1m 40s
107:	learn: 0.2314576	total: 27.7s	remaining: 1m 40s
108:	learn: 0.2313791	total: 27.9s	remaining: 1m 40s
109:	learn: 0.2313181	total: 28.2s	remaining: 1m 39s
110:	learn: 0.2311843	total: 28.5s	remaining: 1m 39s
111:	learn: 0.2310797	total: 28.7s	remaining: 1m 39s
112:	learn: 0.2310148	total: 29s	remaining: 1m 39s
113:	learn: 0.2308504	total: 29.2s	remaining: 1m 38s
114:	learn: 0.2307607	total: 29.5s	remaining: 1m 38s
115:	learn: 0.2305183	total: 29.8s	remaining: 1m 38s

116:	learn: 0.2303454	total: 30.1s	remaining: 1m 38s
117:	learn: 0.2299793	total: 30.4s	remaining: 1m 38s
118:	learn: 0.2297502	total: 30.6s	remaining: 1m 38s
119:	learn: 0.2296622	total: 30.9s	remaining: 1m 37s
120:	learn: 0.2296179	total: 31.2s	remaining: 1m 37s
121:	learn: 0.2295561	total: 31.4s	remaining: 1m 37s
122:	learn: 0.2294334	total: 31.7s	remaining: 1m 37s
123:	learn: 0.2293752	total: 32s	remaining: 1m 36s
124:	learn: 0.2291776	total: 32.2s	remaining: 1m 36s
125:	learn: 0.2291010	total: 32.5s	remaining: 1m 36s
126:	learn: 0.2289875	total: 32.7s	remaining: 1m 36s
127:	learn: 0.2289376	total: 33s	remaining: 1m 35s
128:	learn: 0.2289082	total: 33.2s	remaining: 1m 35s
129:	learn: 0.2287649	total: 33.5s	remaining: 1m 35s
130:	learn: 0.2287030	total: 33.7s	remaining: 1m 34s
131:	learn: 0.2278280	total: 34s	remaining: 1m 34s
132:	learn: 0.2277621	total: 34.3s	remaining: 1m 34s
133:	learn: 0.2277179	total: 34.5s	remaining: 1m 34s
134:	learn: 0.2276532	total: 34.8s	remaining: 1m 34s
135:	learn: 0.2275833	total: 35s	remaining: 1m 33s
136:	learn: 0.2275233	total: 35.3s	remaining: 1m 33s
137:	learn: 0.2273430	total: 35.5s	remaining: 1m 33s
138:	learn: 0.2271831	total: 35.8s	remaining: 1m 32s
139:	learn: 0.2271478	total: 36s	remaining: 1m 32s
140:	learn: 0.2269915	total: 36.3s	remaining: 1m 32s
141:	learn: 0.2269455	total: 36.6s	remaining: 1m 32s
142:	learn: 0.2269247	total: 36.8s	remaining: 1m 31s
143:	learn: 0.2268220	total: 37.1s	remaining: 1m 31s
144:	learn: 0.2267753	total: 37.3s	remaining: 1m 31s
145:	learn: 0.2267058	total: 37.5s	remaining: 1m 30s
146:	learn: 0.2266357	total: 37.8s	remaining: 1m 30s
147:	learn: 0.2265283	total: 38s	remaining: 1m 30s
148:	learn: 0.2265017	total: 38.3s	remaining: 1m 30s
149:	learn: 0.2262589	total: 38.5s	remaining: 1m 29s
150:	learn: 0.2262282	total: 38.7s	remaining: 1m 29s
151:	learn: 0.2261529	total: 38.9s	remaining: 1m 29s
152:	learn: 0.2260816	total: 39.2s	remaining: 1m 28s
153:	learn: 0.2260050	total: 39.4s	remaining: 1m 28s
154:	learn: 0.2259210	total: 39.6s	remaining: 1m 28s
155:	learn: 0.2258526	total: 39.9s	remaining: 1m 27s
156:	learn: 0.2257857	total: 40.1s	remaining: 1m 27s
157:	learn: 0.2257441	total: 40.3s	remaining: 1m 27s
158:	learn: 0.2255669	total: 40.6s	remaining: 1m 27s
159:	learn: 0.2255031	total: 40.9s	remaining: 1m 26s
160:	learn: 0.2254379	total: 41.2s	remaining: 1m 26s
161:	learn: 0.2253244	total: 41.5s	remaining: 1m 26s
162:	learn: 0.2252774	total: 41.7s	remaining: 1m 26s
163:	learn: 0.2251928	total: 42s	remaining: 1m 26s

164:	learn: 0.2251447	total: 42.3s	remaining: 1m 25s
165:	learn: 0.2250433	total: 42.5s	remaining: 1m 25s
166:	learn: 0.2249101	total: 42.8s	remaining: 1m 25s
167:	learn: 0.2248923	total: 43.1s	remaining: 1m 25s
168:	learn: 0.2247599	total: 43.4s	remaining: 1m 25s
169:	learn: 0.2245253	total: 43.7s	remaining: 1m 24s
170:	learn: 0.2244286	total: 43.9s	remaining: 1m 24s
171:	learn: 0.2243486	total: 44.2s	remaining: 1m 24s
172:	learn: 0.2243115	total: 44.5s	remaining: 1m 24s
173:	learn: 0.2242388	total: 44.7s	remaining: 1m 23s
174:	learn: 0.2242039	total: 45s	remaining: 1m 23s
175:	learn: 0.2240568	total: 45.3s	remaining: 1m 23s
176:	learn: 0.2239530	total: 45.6s	remaining: 1m 23s
177:	learn: 0.2239042	total: 45.8s	remaining: 1m 22s
178:	learn: 0.2238101	total: 46.1s	remaining: 1m 22s
179:	learn: 0.2237404	total: 46.4s	remaining: 1m 22s
180:	learn: 0.2237018	total: 46.7s	remaining: 1m 22s
181:	learn: 0.2236709	total: 46.9s	remaining: 1m 21s
182:	learn: 0.2236245	total: 47.2s	remaining: 1m 21s
183:	learn: 0.2235612	total: 47.5s	remaining: 1m 21s
184:	learn: 0.2234844	total: 47.7s	remaining: 1m 21s
185:	learn: 0.2234012	total: 48s	remaining: 1m 20s
186:	learn: 0.2233202	total: 48.2s	remaining: 1m 20s
187:	learn: 0.2232714	total: 48.5s	remaining: 1m 20s
188:	learn: 0.2231365	total: 48.8s	remaining: 1m 20s
189:	learn: 0.2230664	total: 49s	remaining: 1m 20s
190:	learn: 0.2230059	total: 49.3s	remaining: 1m 19s
191:	learn: 0.2229144	total: 49.6s	remaining: 1m 19s
192:	learn: 0.2228605	total: 49.9s	remaining: 1m 19s
193:	learn: 0.2228042	total: 50.1s	remaining: 1m 19s
194:	learn: 0.2227817	total: 50.4s	remaining: 1m 18s
195:	learn: 0.2226547	total: 50.7s	remaining: 1m 18s
196:	learn: 0.2225381	total: 50.9s	remaining: 1m 18s
197:	learn: 0.2224818	total: 51.2s	remaining: 1m 18s
198:	learn: 0.2223446	total: 51.4s	remaining: 1m 17s
199:	learn: 0.2223074	total: 51.6s	remaining: 1m 17s
200:	learn: 0.2222118	total: 51.9s	remaining: 1m 17s
201:	learn: 0.2221667	total: 52.1s	remaining: 1m 16s
202:	learn: 0.2220993	total: 52.4s	remaining: 1m 16s
203:	learn: 0.2220405	total: 52.6s	remaining: 1m 16s
204:	learn: 0.2219472	total: 52.8s	remaining: 1m 16s
205:	learn: 0.2218605	total: 53.1s	remaining: 1m 15s
206:	learn: 0.2217941	total: 53.3s	remaining: 1m 15s
207:	learn: 0.2216100	total: 53.6s	remaining: 1m 15s
208:	learn: 0.2215592	total: 53.8s	remaining: 1m 14s
209:	learn: 0.2214162	total: 54s	remaining: 1m 14s
210:	learn: 0.2212402	total: 54.3s	remaining: 1m 14s
211:	learn: 0.2211896	total: 54.5s	remaining: 1m 14s

212:	learn: 0.2210818	total: 54.8s	remaining: 1m 13s
213:	learn: 0.2209805	total: 55s	remaining: 1m 13s
214:	learn: 0.2208965	total: 55.3s	remaining: 1m 13s
215:	learn: 0.2208747	total: 55.5s	remaining: 1m 12s
216:	learn: 0.2207468	total: 55.7s	remaining: 1m 12s
217:	learn: 0.2206080	total: 56s	remaining: 1m 12s
218:	learn: 0.2205704	total: 56.2s	remaining: 1m 12s
219:	learn: 0.2204364	total: 56.5s	remaining: 1m 11s
220:	learn: 0.2204139	total: 56.7s	remaining: 1m 11s
221:	learn: 0.2202790	total: 57s	remaining: 1m 11s
222:	learn: 0.2202447	total: 57.2s	remaining: 1m 11s
223:	learn: 0.2201715	total: 57.5s	remaining: 1m 10s
224:	learn: 0.2201342	total: 57.7s	remaining: 1m 10s
225:	learn: 0.2200810	total: 58s	remaining: 1m 10s
226:	learn: 0.2200126	total: 58.3s	remaining: 1m 10s
227:	learn: 0.2199349	total: 58.5s	remaining: 1m 9s
228:	learn: 0.2198315	total: 58.8s	remaining: 1m 9s
229:	learn: 0.2196582	total: 59s	remaining: 1m 9s
230:	learn: 0.2195313	total: 59.3s	remaining: 1m 9s
231:	learn: 0.2194669	total: 59.6s	remaining: 1m 8s
232:	learn: 0.2193544	total: 59.8s	remaining: 1m 8s
233:	learn: 0.2191986	total: 1m	remaining: 1m 8s
234:	learn: 0.2190073	total: 1m	remaining: 1m 8s
235:	learn: 0.2189839	total: 1m	remaining: 1m 7s
236:	learn: 0.2188919	total: 1m	remaining: 1m 7s
237:	learn: 0.2188611	total: 1m 1s	remaining: 1m 7s
238:	learn: 0.2187739	total: 1m 1s	remaining: 1m 7s
239:	learn: 0.2186798	total: 1m 1s	remaining: 1m 6s
240:	learn: 0.2185543	total: 1m 2s	remaining: 1m 6s
241:	learn: 0.2185051	total: 1m 2s	remaining: 1m 6s
242:	learn: 0.2184769	total: 1m 2s	remaining: 1m 6s
243:	learn: 0.2184406	total: 1m 2s	remaining: 1m 5s
244:	learn: 0.2183561	total: 1m 3s	remaining: 1m 5s
245:	learn: 0.2182502	total: 1m 3s	remaining: 1m 5s
246:	learn: 0.2181766	total: 1m 3s	remaining: 1m 5s
247:	learn: 0.2180914	total: 1m 4s	remaining: 1m 5s
248:	learn: 0.2180396	total: 1m 4s	remaining: 1m 4s
249:	learn: 0.2179159	total: 1m 4s	remaining: 1m 4s
250:	learn: 0.2178842	total: 1m 4s	remaining: 1m 4s
251:	learn: 0.2177665	total: 1m 5s	remaining: 1m 4s
252:	learn: 0.2177489	total: 1m 5s	remaining: 1m 3s
253:	learn: 0.2176366	total: 1m 5s	remaining: 1m 3s
254:	learn: 0.2175413	total: 1m 5s	remaining: 1m 3s
255:	learn: 0.2175141	total: 1m 6s	remaining: 1m 3s
256:	learn: 0.2174914	total: 1m 6s	remaining: 1m 2s
257:	learn: 0.2174320	total: 1m 6s	remaining: 1m 2s
258:	learn: 0.2173638	total: 1m 7s	remaining: 1m 2s
259:	learn: 0.2172486	total: 1m 7s	remaining: 1m 2s

260:	learn: 0.2171382	total: 1m 7s	remaining: 1m 1s
261:	learn: 0.2170256	total: 1m 7s	remaining: 1m 1s
262:	learn: 0.2169450	total: 1m 8s	remaining: 1m 1s
263:	learn: 0.2167561	total: 1m 8s	remaining: 1m 1s
264:	learn: 0.2166722	total: 1m 8s	remaining: 1m
265:	learn: 0.2165492	total: 1m 8s	remaining: 1m
266:	learn: 0.2164964	total: 1m 9s	remaining: 1m
267:	learn: 0.2164826	total: 1m 9s	remaining: 1m
268:	learn: 0.2164144	total: 1m 9s	remaining: 59.7s
269:	learn: 0.2163749	total: 1m 9s	remaining: 59.5s
270:	learn: 0.2163077	total: 1m 10s	remaining: 59.2s
271:	learn: 0.2162472	total: 1m 10s	remaining: 58.9s
272:	learn: 0.2162019	total: 1m 10s	remaining: 58.6s
273:	learn: 0.2161542	total: 1m 10s	remaining: 58.4s
274:	learn: 0.2160520	total: 1m 10s	remaining: 58.1s
275:	learn: 0.2160345	total: 1m 11s	remaining: 57.8s
276:	learn: 0.2159815	total: 1m 11s	remaining: 57.6s
277:	learn: 0.2159140	total: 1m 11s	remaining: 57.3s
278:	learn: 0.2158941	total: 1m 11s	remaining: 57s
279:	learn: 0.2158211	total: 1m 12s	remaining: 56.7s
280:	learn: 0.2157200	total: 1m 12s	remaining: 56.5s
281:	learn: 0.2156482	total: 1m 12s	remaining: 56.2s
282:	learn: 0.2155398	total: 1m 12s	remaining: 56s
283:	learn: 0.2155081	total: 1m 13s	remaining: 55.7s
284:	learn: 0.2153496	total: 1m 13s	remaining: 55.5s
285:	learn: 0.2152350	total: 1m 13s	remaining: 55.2s
286:	learn: 0.2151538	total: 1m 14s	remaining: 55s
287:	learn: 0.2150815	total: 1m 14s	remaining: 54.7s
288:	learn: 0.2149478	total: 1m 14s	remaining: 54.5s
289:	learn: 0.2148701	total: 1m 15s	remaining: 54.4s
290:	learn: 0.2148168	total: 1m 15s	remaining: 54.1s
291:	learn: 0.2146241	total: 1m 15s	remaining: 53.9s
292:	learn: 0.2145119	total: 1m 15s	remaining: 53.6s
293:	learn: 0.2144283	total: 1m 16s	remaining: 53.4s
294:	learn: 0.2143533	total: 1m 16s	remaining: 53.1s
295:	learn: 0.2142354	total: 1m 16s	remaining: 52.9s
296:	learn: 0.2141788	total: 1m 16s	remaining: 52.6s
297:	learn: 0.2141388	total: 1m 17s	remaining: 52.3s
298:	learn: 0.2140556	total: 1m 17s	remaining: 52s
299:	learn: 0.2140182	total: 1m 17s	remaining: 51.8s
300:	learn: 0.2138917	total: 1m 18s	remaining: 51.7s
301:	learn: 0.2138491	total: 1m 18s	remaining: 51.4s
302:	learn: 0.2137828	total: 1m 18s	remaining: 51.2s
303:	learn: 0.2136831	total: 1m 18s	remaining: 50.9s
304:	learn: 0.2135996	total: 1m 19s	remaining: 50.6s
305:	learn: 0.2135920	total: 1m 19s	remaining: 50.4s
306:	learn: 0.2134725	total: 1m 19s	remaining: 50.1s
307:	learn: 0.2134090	total: 1m 19s	remaining: 49.9s

308:	learn: 0.2132997	total: 1m 20s	remaining: 49.6s
309:	learn: 0.2132597	total: 1m 20s	remaining: 49.3s
310:	learn: 0.2131296	total: 1m 20s	remaining: 49.1s
311:	learn: 0.2130878	total: 1m 20s	remaining: 48.8s
312:	learn: 0.2130431	total: 1m 21s	remaining: 48.5s
313:	learn: 0.2128068	total: 1m 21s	remaining: 48.3s
314:	learn: 0.2127702	total: 1m 21s	remaining: 48s
315:	learn: 0.2127167	total: 1m 22s	remaining: 47.8s
316:	learn: 0.2126967	total: 1m 22s	remaining: 47.5s
317:	learn: 0.2126273	total: 1m 22s	remaining: 47.3s
318:	learn: 0.2124155	total: 1m 22s	remaining: 47s
319:	learn: 0.2123958	total: 1m 23s	remaining: 46.8s
320:	learn: 0.2123456	total: 1m 23s	remaining: 46.5s
321:	learn: 0.2123086	total: 1m 23s	remaining: 46.3s
322:	learn: 0.2122269	total: 1m 23s	remaining: 46s
323:	learn: 0.2121590	total: 1m 24s	remaining: 45.7s
324:	learn: 0.2121122	total: 1m 24s	remaining: 45.5s
325:	learn: 0.2120670	total: 1m 24s	remaining: 45.2s
326:	learn: 0.2120384	total: 1m 24s	remaining: 44.9s
327:	learn: 0.2118744	total: 1m 25s	remaining: 44.7s
328:	learn: 0.2118410	total: 1m 25s	remaining: 44.4s
329:	learn: 0.2117455	total: 1m 25s	remaining: 44.1s
330:	learn: 0.2117115	total: 1m 25s	remaining: 43.9s
331:	learn: 0.2116631	total: 1m 26s	remaining: 43.6s
332:	learn: 0.2116362	total: 1m 26s	remaining: 43.3s
333:	learn: 0.2115701	total: 1m 26s	remaining: 43s
334:	learn: 0.2114710	total: 1m 26s	remaining: 42.8s
335:	learn: 0.2114233	total: 1m 27s	remaining: 42.5s
336:	learn: 0.2113575	total: 1m 27s	remaining: 42.3s
337:	learn: 0.2112935	total: 1m 27s	remaining: 42s
338:	learn: 0.2111762	total: 1m 27s	remaining: 41.7s
339:	learn: 0.2110586	total: 1m 28s	remaining: 41.5s
340:	learn: 0.2110359	total: 1m 28s	remaining: 41.2s
341:	learn: 0.2109723	total: 1m 28s	remaining: 40.9s
342:	learn: 0.2108658	total: 1m 28s	remaining: 40.7s
343:	learn: 0.2108274	total: 1m 29s	remaining: 40.4s
344:	learn: 0.2107684	total: 1m 29s	remaining: 40.2s
345:	learn: 0.2106947	total: 1m 29s	remaining: 39.9s
346:	learn: 0.2106263	total: 1m 29s	remaining: 39.7s
347:	learn: 0.2106019	total: 1m 30s	remaining: 39.4s
348:	learn: 0.2105559	total: 1m 30s	remaining: 39.2s
349:	learn: 0.2105309	total: 1m 30s	remaining: 38.9s
350:	learn: 0.2104655	total: 1m 31s	remaining: 38.6s
351:	learn: 0.2104126	total: 1m 31s	remaining: 38.4s
352:	learn: 0.2103914	total: 1m 31s	remaining: 38.1s
353:	learn: 0.2102810	total: 1m 31s	remaining: 37.9s
354:	learn: 0.2102518	total: 1m 32s	remaining: 37.6s
355:	learn: 0.2101585	total: 1m 32s	remaining: 37.3s

356:	learn: 0.2101191	total: 1m 32s	remaining: 37.1s
357:	learn: 0.2100832	total: 1m 32s	remaining: 36.8s
358:	learn: 0.2100021	total: 1m 33s	remaining: 36.6s
359:	learn: 0.2099253	total: 1m 33s	remaining: 36.3s
360:	learn: 0.2098949	total: 1m 33s	remaining: 36.1s
361:	learn: 0.2098162	total: 1m 33s	remaining: 35.8s
362:	learn: 0.2097433	total: 1m 34s	remaining: 35.6s
363:	learn: 0.2096888	total: 1m 34s	remaining: 35.3s
364:	learn: 0.2095940	total: 1m 34s	remaining: 35s
365:	learn: 0.2095519	total: 1m 35s	remaining: 34.8s
366:	learn: 0.2094720	total: 1m 35s	remaining: 34.5s
367:	learn: 0.2094239	total: 1m 35s	remaining: 34.3s
368:	learn: 0.2093475	total: 1m 35s	remaining: 34s
369:	learn: 0.2093073	total: 1m 36s	remaining: 33.8s
370:	learn: 0.2092573	total: 1m 36s	remaining: 33.5s
371:	learn: 0.2091936	total: 1m 36s	remaining: 33.3s
372:	learn: 0.2091705	total: 1m 36s	remaining: 33s
373:	learn: 0.2090938	total: 1m 37s	remaining: 32.8s
374:	learn: 0.2090066	total: 1m 37s	remaining: 32.5s
375:	learn: 0.2089613	total: 1m 37s	remaining: 32.3s
376:	learn: 0.2089149	total: 1m 38s	remaining: 32s
377:	learn: 0.2089022	total: 1m 38s	remaining: 31.7s
378:	learn: 0.2086734	total: 1m 38s	remaining: 31.5s
379:	learn: 0.2086661	total: 1m 38s	remaining: 31.2s
380:	learn: 0.2085621	total: 1m 39s	remaining: 31s
381:	learn: 0.2085069	total: 1m 39s	remaining: 30.7s
382:	learn: 0.2083625	total: 1m 39s	remaining: 30.4s
383:	learn: 0.2082882	total: 1m 39s	remaining: 30.2s
384:	learn: 0.2081778	total: 1m 40s	remaining: 29.9s
385:	learn: 0.2081271	total: 1m 40s	remaining: 29.6s
386:	learn: 0.2080826	total: 1m 40s	remaining: 29.4s
387:	learn: 0.2079659	total: 1m 40s	remaining: 29.1s
388:	learn: 0.2078946	total: 1m 41s	remaining: 28.8s
389:	learn: 0.2078046	total: 1m 41s	remaining: 28.6s
390:	learn: 0.2077632	total: 1m 41s	remaining: 28.3s
391:	learn: 0.2077118	total: 1m 41s	remaining: 28.1s
392:	learn: 0.2076443	total: 1m 42s	remaining: 27.8s
393:	learn: 0.2076294	total: 1m 42s	remaining: 27.5s
394:	learn: 0.2075429	total: 1m 42s	remaining: 27.3s
395:	learn: 0.2074370	total: 1m 42s	remaining: 27s
396:	learn: 0.2073812	total: 1m 43s	remaining: 26.7s
397:	learn: 0.2073420	total: 1m 43s	remaining: 26.5s
398:	learn: 0.2073089	total: 1m 43s	remaining: 26.2s
399:	learn: 0.2072830	total: 1m 43s	remaining: 25.9s
400:	learn: 0.2072556	total: 1m 43s	remaining: 25.7s
401:	learn: 0.2072216	total: 1m 44s	remaining: 25.4s
402:	learn: 0.2071617	total: 1m 44s	remaining: 25.1s
403:	learn: 0.2070903	total: 1m 44s	remaining: 24.9s

404:	learn: 0.2070556	total: 1m 44s	remaining: 24.6s
405:	learn: 0.2069945	total: 1m 45s	remaining: 24.4s
406:	learn: 0.2069371	total: 1m 45s	remaining: 24.1s
407:	learn: 0.2069145	total: 1m 45s	remaining: 23.8s
408:	learn: 0.2068205	total: 1m 46s	remaining: 23.6s
409:	learn: 0.2067408	total: 1m 46s	remaining: 23.3s
410:	learn: 0.2066912	total: 1m 46s	remaining: 23.1s
411:	learn: 0.2066701	total: 1m 46s	remaining: 22.8s
412:	learn: 0.2066537	total: 1m 47s	remaining: 22.5s
413:	learn: 0.2065972	total: 1m 47s	remaining: 22.3s
414:	learn: 0.2065363	total: 1m 47s	remaining: 22s
415:	learn: 0.2065154	total: 1m 47s	remaining: 21.8s
416:	learn: 0.2064848	total: 1m 48s	remaining: 21.5s
417:	learn: 0.2064735	total: 1m 48s	remaining: 21.2s
418:	learn: 0.2064421	total: 1m 48s	remaining: 21s
419:	learn: 0.2063729	total: 1m 48s	remaining: 20.7s
420:	learn: 0.2062791	total: 1m 49s	remaining: 20.5s
421:	learn: 0.2062447	total: 1m 49s	remaining: 20.2s
422:	learn: 0.2062085	total: 1m 49s	remaining: 20s
423:	learn: 0.2061294	total: 1m 49s	remaining: 19.7s
424:	learn: 0.2060998	total: 1m 50s	remaining: 19.4s
425:	learn: 0.2060629	total: 1m 50s	remaining: 19.2s
426:	learn: 0.2060389	total: 1m 50s	remaining: 18.9s
427:	learn: 0.2059248	total: 1m 50s	remaining: 18.7s
428:	learn: 0.2058935	total: 1m 51s	remaining: 18.4s
429:	learn: 0.2058728	total: 1m 51s	remaining: 18.1s
430:	learn: 0.2058340	total: 1m 51s	remaining: 17.9s
431:	learn: 0.2057788	total: 1m 51s	remaining: 17.6s
432:	learn: 0.2057530	total: 1m 52s	remaining: 17.4s
433:	learn: 0.2056572	total: 1m 52s	remaining: 17.1s
434:	learn: 0.2055893	total: 1m 52s	remaining: 16.8s
435:	learn: 0.2055056	total: 1m 53s	remaining: 16.6s
436:	learn: 0.2054442	total: 1m 53s	remaining: 16.3s
437:	learn: 0.2053451	total: 1m 53s	remaining: 16.1s
438:	learn: 0.2053052	total: 1m 53s	remaining: 15.8s
439:	learn: 0.2052833	total: 1m 54s	remaining: 15.6s
440:	learn: 0.2052378	total: 1m 54s	remaining: 15.3s
441:	learn: 0.2052165	total: 1m 54s	remaining: 15s
442:	learn: 0.2051813	total: 1m 54s	remaining: 14.8s
443:	learn: 0.2050995	total: 1m 55s	remaining: 14.5s
444:	learn: 0.2050489	total: 1m 55s	remaining: 14.3s
445:	learn: 0.2049758	total: 1m 55s	remaining: 14s
446:	learn: 0.2049030	total: 1m 55s	remaining: 13.7s
447:	learn: 0.2048637	total: 1m 56s	remaining: 13.5s
448:	learn: 0.2048187	total: 1m 56s	remaining: 13.2s
449:	learn: 0.2047381	total: 1m 56s	remaining: 13s
450:	learn: 0.2046853	total: 1m 56s	remaining: 12.7s
451:	learn: 0.2045638	total: 1m 57s	remaining: 12.4s

452:	learn: 0.2045235	total: 1m 57s	remaining: 12.2s
453:	learn: 0.2044906	total: 1m 57s	remaining: 11.9s
454:	learn: 0.2044453	total: 1m 57s	remaining: 11.7s
455:	learn: 0.2044117	total: 1m 58s	remaining: 11.4s
456:	learn: 0.2043628	total: 1m 58s	remaining: 11.1s
457:	learn: 0.2043283	total: 1m 58s	remaining: 10.9s
458:	learn: 0.2042594	total: 1m 58s	remaining: 10.6s
459:	learn: 0.2041979	total: 1m 59s	remaining: 10.4s
460:	learn: 0.2041020	total: 1m 59s	remaining: 10.1s
461:	learn: 0.2040220	total: 1m 59s	remaining: 9.83s
462:	learn: 0.2039608	total: 1m 59s	remaining: 9.57s
463:	learn: 0.2039309	total: 2m	remaining: 9.31s
464:	learn: 0.2038994	total: 2m	remaining: 9.05s
465:	learn: 0.2037281	total: 2m	remaining: 8.79s
466:	learn: 0.2036532	total: 2m	remaining: 8.54s
467:	learn: 0.2036191	total: 2m 1s	remaining: 8.28s
468:	learn: 0.2035708	total: 2m 1s	remaining: 8.02s
469:	learn: 0.2035269	total: 2m 1s	remaining: 7.76s
470:	learn: 0.2034951	total: 2m 1s	remaining: 7.51s
471:	learn: 0.2034463	total: 2m 2s	remaining: 7.25s
472:	learn: 0.2033719	total: 2m 2s	remaining: 6.99s
473:	learn: 0.2033302	total: 2m 2s	remaining: 6.74s
474:	learn: 0.2032523	total: 2m 3s	remaining: 6.48s
475:	learn: 0.2031761	total: 2m 3s	remaining: 6.22s
476:	learn: 0.2030703	total: 2m 3s	remaining: 5.97s
477:	learn: 0.2030282	total: 2m 4s	remaining: 5.71s
478:	learn: 0.2029734	total: 2m 4s	remaining: 5.45s
479:	learn: 0.2029401	total: 2m 4s	remaining: 5.19s
480:	learn: 0.2027716	total: 2m 4s	remaining: 4.93s
481:	learn: 0.2027628	total: 2m 5s	remaining: 4.67s
482:	learn: 0.2027289	total: 2m 5s	remaining: 4.41s
483:	learn: 0.2026069	total: 2m 5s	remaining: 4.15s
484:	learn: 0.2025092	total: 2m 5s	remaining: 3.89s
485:	learn: 0.2024501	total: 2m 6s	remaining: 3.63s
486:	learn: 0.2023868	total: 2m 6s	remaining: 3.38s
487:	learn: 0.2023627	total: 2m 6s	remaining: 3.12s
488:	learn: 0.2022773	total: 2m 6s	remaining: 2.85s
489:	learn: 0.2021646	total: 2m 7s	remaining: 2.6s
490:	learn: 0.2021327	total: 2m 7s	remaining: 2.34s
491:	learn: 0.2020221	total: 2m 7s	remaining: 2.08s
492:	learn: 0.2020042	total: 2m 8s	remaining: 1.82s
493:	learn: 0.2019589	total: 2m 8s	remaining: 1.56s
494:	learn: 0.2019096	total: 2m 8s	remaining: 1.3s
495:	learn: 0.2018261	total: 2m 8s	remaining: 1.04s
496:	learn: 0.2017602	total: 2m 9s	remaining: 780ms
497:	learn: 0.2017120	total: 2m 9s	remaining: 520ms
498:	learn: 0.2016200	total: 2m 9s	remaining: 260ms
499:	learn: 0.2015721	total: 2m 10s	remaining: 0us

Accuracy en cada fold: [0.8449692 0.80817933 0.76180698 0.69284736 0.68463381
0.71338125

0.69952088 0.64076673 0.62348109 0.67585145]

Accuracy promedio: 0.7145438073111581

Learning rate set to 0.174902

0:	learn: 0.9741259	total: 285ms	remaining: 2m 22s
1:	learn: 0.8975124	total: 563ms	remaining: 2m 20s
2:	learn: 0.8357398	total: 814ms	remaining: 2m 14s
3:	learn: 0.7915634	total: 1.03s	remaining: 2m 7s
4:	learn: 0.7407766	total: 1.22s	remaining: 2m
5:	learn: 0.6475013	total: 1.43s	remaining: 1m 58s
6:	learn: 0.5780797	total: 1.65s	remaining: 1m 56s
7:	learn: 0.5208903	total: 1.87s	remaining: 1m 54s
8:	learn: 0.5077518	total: 2.06s	remaining: 1m 52s
9:	learn: 0.4633853	total: 2.3s	remaining: 1m 52s
10:	learn: 0.4329555	total: 2.56s	remaining: 1m 53s
11:	learn: 0.4068081	total: 2.76s	remaining: 1m 52s
12:	learn: 0.3859958	total: 2.95s	remaining: 1m 50s
13:	learn: 0.3696696	total: 3.13s	remaining: 1m 48s
14:	learn: 0.3581578	total: 3.32s	remaining: 1m 47s
15:	learn: 0.3433575	total: 3.53s	remaining: 1m 46s
16:	learn: 0.3354873	total: 3.79s	remaining: 1m 47s
17:	learn: 0.3284255	total: 4.08s	remaining: 1m 49s
18:	learn: 0.3253633	total: 4.37s	remaining: 1m 50s
19:	learn: 0.3150039	total: 4.65s	remaining: 1m 51s
20:	learn: 0.3094029	total: 4.93s	remaining: 1m 52s
21:	learn: 0.2999760	total: 5.23s	remaining: 1m 53s
22:	learn: 0.2986327	total: 5.53s	remaining: 1m 54s
23:	learn: 0.2972673	total: 5.82s	remaining: 1m 55s
24:	learn: 0.2958170	total: 6.12s	remaining: 1m 56s
25:	learn: 0.2886882	total: 6.42s	remaining: 1m 57s
26:	learn: 0.2862394	total: 6.7s	remaining: 1m 57s
27:	learn: 0.2807344	total: 6.96s	remaining: 1m 57s
28:	learn: 0.2761587	total: 7.24s	remaining: 1m 57s
29:	learn: 0.2751951	total: 7.52s	remaining: 1m 57s
30:	learn: 0.2745240	total: 7.81s	remaining: 1m 58s
31:	learn: 0.2706097	total: 8.15s	remaining: 1m 59s
32:	learn: 0.2675512	total: 8.44s	remaining: 1m 59s
33:	learn: 0.2647427	total: 8.76s	remaining: 2m
34:	learn: 0.2641658	total: 9.04s	remaining: 2m
35:	learn: 0.2636691	total: 9.3s	remaining: 1m 59s
36:	learn: 0.2598143	total: 9.62s	remaining: 2m
37:	learn: 0.2594147	total: 9.91s	remaining: 2m
38:	learn: 0.2568369	total: 10.2s	remaining: 2m
39:	learn: 0.2565865	total: 10.5s	remaining: 2m
40:	learn: 0.2563018	total: 10.8s	remaining: 2m
41:	learn: 0.2559461	total: 11.1s	remaining: 2m
42:	learn: 0.2558945	total: 11.3s	remaining: 2m

43:	learn: 0.2557325	total: 11.6s	remaining: 2m
44:	learn: 0.2552829	total: 11.9s	remaining: 2m
45:	learn: 0.2552356	total: 12s	remaining: 1m 58s
46:	learn: 0.2546944	total: 12.3s	remaining: 1m 58s
47:	learn: 0.2543202	total: 12.6s	remaining: 1m 58s
48:	learn: 0.2539476	total: 12.9s	remaining: 1m 58s
49:	learn: 0.2521907	total: 13.2s	remaining: 1m 58s
50:	learn: 0.2519146	total: 13.5s	remaining: 1m 59s
51:	learn: 0.2517873	total: 13.8s	remaining: 1m 59s
52:	learn: 0.2513858	total: 14.1s	remaining: 1m 58s
53:	learn: 0.2510359	total: 14.4s	remaining: 1m 58s
54:	learn: 0.2508257	total: 14.7s	remaining: 1m 59s
55:	learn: 0.2506781	total: 15s	remaining: 1m 59s
56:	learn: 0.2504708	total: 15.3s	remaining: 1m 58s
57:	learn: 0.2502010	total: 15.6s	remaining: 1m 58s
58:	learn: 0.2499422	total: 15.9s	remaining: 1m 58s
59:	learn: 0.2497399	total: 16.2s	remaining: 1m 58s
60:	learn: 0.2496445	total: 16.5s	remaining: 1m 58s
61:	learn: 0.2494029	total: 16.8s	remaining: 1m 58s
62:	learn: 0.2492997	total: 17s	remaining: 1m 58s
63:	learn: 0.2491155	total: 17.3s	remaining: 1m 57s
64:	learn: 0.2488741	total: 17.6s	remaining: 1m 57s
65:	learn: 0.2485931	total: 17.8s	remaining: 1m 57s
66:	learn: 0.2484228	total: 18s	remaining: 1m 56s
67:	learn: 0.2482231	total: 18.3s	remaining: 1m 56s
68:	learn: 0.2479920	total: 18.5s	remaining: 1m 55s
69:	learn: 0.2478147	total: 18.8s	remaining: 1m 55s
70:	learn: 0.2475861	total: 19.1s	remaining: 1m 55s
71:	learn: 0.2474646	total: 19.3s	remaining: 1m 54s
72:	learn: 0.2473636	total: 19.6s	remaining: 1m 54s
73:	learn: 0.2471443	total: 19.8s	remaining: 1m 54s
74:	learn: 0.2468174	total: 20.1s	remaining: 1m 53s
75:	learn: 0.2466766	total: 20.4s	remaining: 1m 53s
76:	learn: 0.2464546	total: 20.6s	remaining: 1m 53s
77:	learn: 0.2450854	total: 20.9s	remaining: 1m 52s
78:	learn: 0.2448964	total: 21.1s	remaining: 1m 52s
79:	learn: 0.2446381	total: 21.4s	remaining: 1m 52s
80:	learn: 0.2442519	total: 21.7s	remaining: 1m 52s
81:	learn: 0.2441394	total: 22.1s	remaining: 1m 52s
82:	learn: 0.2432552	total: 22.3s	remaining: 1m 52s
83:	learn: 0.2431479	total: 22.6s	remaining: 1m 52s
84:	learn: 0.2430806	total: 23s	remaining: 1m 52s
85:	learn: 0.2429218	total: 23.3s	remaining: 1m 52s
86:	learn: 0.2427474	total: 23.6s	remaining: 1m 52s
87:	learn: 0.2421374	total: 23.9s	remaining: 1m 51s
88:	learn: 0.2420386	total: 24.1s	remaining: 1m 51s
89:	learn: 0.2419432	total: 24.4s	remaining: 1m 51s
90:	learn: 0.2418452	total: 24.7s	remaining: 1m 51s

91:	learn: 0.2417377	total: 25s	remaining: 1m 50s
92:	learn: 0.2416858	total: 25.3s	remaining: 1m 50s
93:	learn: 0.2415749	total: 25.6s	remaining: 1m 50s
94:	learn: 0.2415284	total: 25.9s	remaining: 1m 50s
95:	learn: 0.2413702	total: 26.2s	remaining: 1m 50s
96:	learn: 0.2413432	total: 26.4s	remaining: 1m 49s
97:	learn: 0.2399699	total: 26.7s	remaining: 1m 49s
98:	learn: 0.2398325	total: 27s	remaining: 1m 49s
99:	learn: 0.2397554	total: 27.3s	remaining: 1m 49s
100:	learn: 0.2396959	total: 27.6s	remaining: 1m 48s
101:	learn: 0.2395706	total: 27.8s	remaining: 1m 48s
102:	learn: 0.2394984	total: 28.1s	remaining: 1m 48s
103:	learn: 0.2394305	total: 28.4s	remaining: 1m 48s
104:	learn: 0.2393157	total: 28.7s	remaining: 1m 47s
105:	learn: 0.2391194	total: 29s	remaining: 1m 47s
106:	learn: 0.2389863	total: 29.3s	remaining: 1m 47s
107:	learn: 0.2388742	total: 29.6s	remaining: 1m 47s
108:	learn: 0.2388563	total: 29.9s	remaining: 1m 47s
109:	learn: 0.2387592	total: 30.2s	remaining: 1m 46s
110:	learn: 0.2386334	total: 30.5s	remaining: 1m 46s
111:	learn: 0.2385672	total: 30.7s	remaining: 1m 46s
112:	learn: 0.2384955	total: 31s	remaining: 1m 46s
113:	learn: 0.2384366	total: 31.3s	remaining: 1m 46s
114:	learn: 0.2383281	total: 31.6s	remaining: 1m 45s
115:	learn: 0.2382441	total: 31.9s	remaining: 1m 45s
116:	learn: 0.2380843	total: 32.1s	remaining: 1m 45s
117:	learn: 0.2380269	total: 32.4s	remaining: 1m 44s
118:	learn: 0.2378848	total: 32.7s	remaining: 1m 44s
119:	learn: 0.2378007	total: 32.9s	remaining: 1m 44s
120:	learn: 0.2377533	total: 33.2s	remaining: 1m 43s
121:	learn: 0.2376980	total: 33.4s	remaining: 1m 43s
122:	learn: 0.2376208	total: 33.7s	remaining: 1m 43s
123:	learn: 0.2375682	total: 34s	remaining: 1m 43s
124:	learn: 0.2375137	total: 34.2s	remaining: 1m 42s
125:	learn: 0.2374786	total: 34.5s	remaining: 1m 42s
126:	learn: 0.2372736	total: 34.8s	remaining: 1m 42s
127:	learn: 0.2372433	total: 35s	remaining: 1m 41s
128:	learn: 0.2371872	total: 35.3s	remaining: 1m 41s
129:	learn: 0.2370841	total: 35.6s	remaining: 1m 41s
130:	learn: 0.2367446	total: 35.8s	remaining: 1m 40s
131:	learn: 0.2367316	total: 36.1s	remaining: 1m 40s
132:	learn: 0.2366893	total: 36.4s	remaining: 1m 40s
133:	learn: 0.2365789	total: 36.6s	remaining: 1m 40s
134:	learn: 0.2364812	total: 36.9s	remaining: 1m 39s
135:	learn: 0.2363756	total: 37.2s	remaining: 1m 39s
136:	learn: 0.2359005	total: 37.5s	remaining: 1m 39s
137:	learn: 0.2357673	total: 37.8s	remaining: 1m 39s
138:	learn: 0.2356417	total: 38.1s	remaining: 1m 38s

139:	learn: 0.2354908	total: 38.4s	remaining: 1m 38s
140:	learn: 0.2353887	total: 38.7s	remaining: 1m 38s
141:	learn: 0.2353274	total: 39s	remaining: 1m 38s
142:	learn: 0.2352938	total: 39.3s	remaining: 1m 38s
143:	learn: 0.2351483	total: 39.6s	remaining: 1m 37s
144:	learn: 0.2348960	total: 39.9s	remaining: 1m 37s
145:	learn: 0.2347970	total: 40.2s	remaining: 1m 37s
146:	learn: 0.2347457	total: 40.5s	remaining: 1m 37s
147:	learn: 0.2346944	total: 40.8s	remaining: 1m 36s
148:	learn: 0.2346792	total: 41s	remaining: 1m 36s
149:	learn: 0.2346196	total: 41.3s	remaining: 1m 36s
150:	learn: 0.2345125	total: 41.6s	remaining: 1m 36s
151:	learn: 0.2344329	total: 41.9s	remaining: 1m 35s
152:	learn: 0.2343352	total: 42.2s	remaining: 1m 35s
153:	learn: 0.2342170	total: 42.5s	remaining: 1m 35s
154:	learn: 0.2339289	total: 42.8s	remaining: 1m 35s
155:	learn: 0.2338512	total: 43.1s	remaining: 1m 35s
156:	learn: 0.2338187	total: 43.4s	remaining: 1m 34s
157:	learn: 0.2337047	total: 43.7s	remaining: 1m 34s
158:	learn: 0.2335458	total: 44s	remaining: 1m 34s
159:	learn: 0.2334025	total: 44.4s	remaining: 1m 34s
160:	learn: 0.2333436	total: 44.7s	remaining: 1m 34s
161:	learn: 0.2332826	total: 45s	remaining: 1m 33s
162:	learn: 0.2332279	total: 45.3s	remaining: 1m 33s
163:	learn: 0.2330247	total: 45.5s	remaining: 1m 33s
164:	learn: 0.2329450	total: 45.9s	remaining: 1m 33s
165:	learn: 0.2327632	total: 46.2s	remaining: 1m 32s
166:	learn: 0.2326445	total: 46.4s	remaining: 1m 32s
167:	learn: 0.2325536	total: 46.7s	remaining: 1m 32s
168:	learn: 0.2324599	total: 47s	remaining: 1m 32s
169:	learn: 0.2323306	total: 47.3s	remaining: 1m 31s
170:	learn: 0.2322290	total: 47.6s	remaining: 1m 31s
171:	learn: 0.2321492	total: 48s	remaining: 1m 31s
172:	learn: 0.2318591	total: 48.2s	remaining: 1m 31s
173:	learn: 0.2317098	total: 48.5s	remaining: 1m 30s
174:	learn: 0.2316351	total: 48.8s	remaining: 1m 30s
175:	learn: 0.2314634	total: 49s	remaining: 1m 30s
176:	learn: 0.2313835	total: 49.3s	remaining: 1m 29s
177:	learn: 0.2313171	total: 49.6s	remaining: 1m 29s
178:	learn: 0.2312776	total: 49.8s	remaining: 1m 29s
179:	learn: 0.2312279	total: 50.1s	remaining: 1m 29s
180:	learn: 0.2311654	total: 50.4s	remaining: 1m 28s
181:	learn: 0.2311466	total: 50.6s	remaining: 1m 28s
182:	learn: 0.2310998	total: 50.9s	remaining: 1m 28s
183:	learn: 0.2310671	total: 51.2s	remaining: 1m 27s
184:	learn: 0.2309419	total: 51.4s	remaining: 1m 27s
185:	learn: 0.2309214	total: 51.7s	remaining: 1m 27s
186:	learn: 0.2308556	total: 52s	remaining: 1m 27s

187:	learn: 0.2308032	total: 52.3s	remaining: 1m 26s
188:	learn: 0.2307509	total: 52.6s	remaining: 1m 26s
189:	learn: 0.2305724	total: 52.9s	remaining: 1m 26s
190:	learn: 0.2305107	total: 53.3s	remaining: 1m 26s
191:	learn: 0.2304224	total: 53.6s	remaining: 1m 25s
192:	learn: 0.2303650	total: 53.9s	remaining: 1m 25s
193:	learn: 0.2302898	total: 54.2s	remaining: 1m 25s
194:	learn: 0.2301108	total: 54.5s	remaining: 1m 25s
195:	learn: 0.2298922	total: 54.8s	remaining: 1m 25s
196:	learn: 0.2298616	total: 55.1s	remaining: 1m 24s
197:	learn: 0.2298153	total: 55.3s	remaining: 1m 24s
198:	learn: 0.2297256	total: 55.6s	remaining: 1m 24s
199:	learn: 0.2296993	total: 55.8s	remaining: 1m 23s
200:	learn: 0.2296412	total: 56.1s	remaining: 1m 23s
201:	learn: 0.2294458	total: 56.4s	remaining: 1m 23s
202:	learn: 0.2293420	total: 56.7s	remaining: 1m 22s
203:	learn: 0.2292630	total: 57s	remaining: 1m 22s
204:	learn: 0.2291939	total: 57.3s	remaining: 1m 22s
205:	learn: 0.2291525	total: 57.6s	remaining: 1m 22s
206:	learn: 0.2291156	total: 57.9s	remaining: 1m 21s
207:	learn: 0.2290433	total: 58.1s	remaining: 1m 21s
208:	learn: 0.2290027	total: 58.4s	remaining: 1m 21s
209:	learn: 0.2289839	total: 58.8s	remaining: 1m 21s
210:	learn: 0.2288867	total: 59s	remaining: 1m 20s
211:	learn: 0.2288305	total: 59.3s	remaining: 1m 20s
212:	learn: 0.2286713	total: 59.6s	remaining: 1m 20s
213:	learn: 0.2285659	total: 59.9s	remaining: 1m 20s
214:	learn: 0.2285270	total: 1m	remaining: 1m 19s
215:	learn: 0.2284819	total: 1m	remaining: 1m 19s
216:	learn: 0.2284221	total: 1m	remaining: 1m 19s
217:	learn: 0.2283492	total: 1m 1s	remaining: 1m 18s
218:	learn: 0.2282491	total: 1m 1s	remaining: 1m 18s
219:	learn: 0.2280945	total: 1m 1s	remaining: 1m 18s
220:	learn: 0.2280448	total: 1m 1s	remaining: 1m 18s
221:	learn: 0.2279829	total: 1m 2s	remaining: 1m 17s
222:	learn: 0.2279247	total: 1m 2s	remaining: 1m 17s
223:	learn: 0.2278723	total: 1m 2s	remaining: 1m 17s
224:	learn: 0.2278232	total: 1m 3s	remaining: 1m 17s
225:	learn: 0.2277083	total: 1m 3s	remaining: 1m 16s
226:	learn: 0.2276484	total: 1m 3s	remaining: 1m 16s
227:	learn: 0.2276087	total: 1m 4s	remaining: 1m 16s
228:	learn: 0.2275724	total: 1m 4s	remaining: 1m 16s
229:	learn: 0.2275202	total: 1m 4s	remaining: 1m 15s
230:	learn: 0.2274389	total: 1m 4s	remaining: 1m 15s
231:	learn: 0.2273554	total: 1m 5s	remaining: 1m 15s
232:	learn: 0.2272095	total: 1m 5s	remaining: 1m 14s
233:	learn: 0.2271647	total: 1m 5s	remaining: 1m 14s
234:	learn: 0.2270761	total: 1m 5s	remaining: 1m 14s

235:	learn: 0.2270063	total: 1m 6s	remaining: 1m 13s
236:	learn: 0.2268886	total: 1m 6s	remaining: 1m 13s
237:	learn: 0.2268445	total: 1m 6s	remaining: 1m 13s
238:	learn: 0.2267815	total: 1m 6s	remaining: 1m 13s
239:	learn: 0.2267063	total: 1m 7s	remaining: 1m 12s
240:	learn: 0.2266488	total: 1m 7s	remaining: 1m 12s
241:	learn: 0.2265627	total: 1m 7s	remaining: 1m 12s
242:	learn: 0.2264830	total: 1m 7s	remaining: 1m 11s
243:	learn: 0.2263792	total: 1m 8s	remaining: 1m 11s
244:	learn: 0.2263326	total: 1m 8s	remaining: 1m 11s
245:	learn: 0.2262446	total: 1m 8s	remaining: 1m 11s
246:	learn: 0.2261722	total: 1m 9s	remaining: 1m 10s
247:	learn: 0.2261032	total: 1m 9s	remaining: 1m 10s
248:	learn: 0.2260631	total: 1m 9s	remaining: 1m 10s
249:	learn: 0.2260349	total: 1m 9s	remaining: 1m 9s
250:	learn: 0.2259595	total: 1m 10s	remaining: 1m 9s
251:	learn: 0.2259222	total: 1m 10s	remaining: 1m 9s
252:	learn: 0.2258134	total: 1m 10s	remaining: 1m 9s
253:	learn: 0.2257359	total: 1m 11s	remaining: 1m 8s
254:	learn: 0.2256823	total: 1m 11s	remaining: 1m 8s
255:	learn: 0.2256016	total: 1m 11s	remaining: 1m 8s
256:	learn: 0.2255748	total: 1m 11s	remaining: 1m 7s
257:	learn: 0.2255377	total: 1m 12s	remaining: 1m 7s
258:	learn: 0.2255042	total: 1m 12s	remaining: 1m 7s
259:	learn: 0.2254256	total: 1m 12s	remaining: 1m 7s
260:	learn: 0.2252684	total: 1m 13s	remaining: 1m 6s
261:	learn: 0.2252368	total: 1m 13s	remaining: 1m 6s
262:	learn: 0.2251676	total: 1m 13s	remaining: 1m 6s
263:	learn: 0.2250974	total: 1m 13s	remaining: 1m 6s
264:	learn: 0.2250074	total: 1m 14s	remaining: 1m 5s
265:	learn: 0.2249697	total: 1m 14s	remaining: 1m 5s
266:	learn: 0.2248618	total: 1m 14s	remaining: 1m 5s
267:	learn: 0.2248233	total: 1m 15s	remaining: 1m 5s
268:	learn: 0.2247460	total: 1m 15s	remaining: 1m 4s
269:	learn: 0.2246862	total: 1m 15s	remaining: 1m 4s
270:	learn: 0.2245665	total: 1m 16s	remaining: 1m 4s
271:	learn: 0.2244555	total: 1m 16s	remaining: 1m 4s
272:	learn: 0.2244261	total: 1m 16s	remaining: 1m 3s
273:	learn: 0.2243882	total: 1m 16s	remaining: 1m 3s
274:	learn: 0.2243516	total: 1m 17s	remaining: 1m 3s
275:	learn: 0.2242547	total: 1m 17s	remaining: 1m 2s
276:	learn: 0.2242050	total: 1m 17s	remaining: 1m 2s
277:	learn: 0.2241716	total: 1m 18s	remaining: 1m 2s
278:	learn: 0.2241505	total: 1m 18s	remaining: 1m 2s
279:	learn: 0.2240931	total: 1m 18s	remaining: 1m 1s
280:	learn: 0.2240798	total: 1m 19s	remaining: 1m 1s
281:	learn: 0.2240076	total: 1m 19s	remaining: 1m 1s
282:	learn: 0.2239579	total: 1m 19s	remaining: 1m 1s

283:	learn: 0.2239068	total: 1m 19s	remaining: 1m
284:	learn: 0.2238640	total: 1m 20s	remaining: 1m
285:	learn: 0.2238458	total: 1m 20s	remaining: 1m
286:	learn: 0.2237650	total: 1m 20s	remaining: 59.9s
287:	learn: 0.2236881	total: 1m 20s	remaining: 59.6s
288:	learn: 0.2236349	total: 1m 21s	remaining: 59.3s
289:	learn: 0.2235725	total: 1m 21s	remaining: 59s
290:	learn: 0.2235591	total: 1m 21s	remaining: 58.7s
291:	learn: 0.2234327	total: 1m 22s	remaining: 58.4s
292:	learn: 0.2234003	total: 1m 22s	remaining: 58.1s
293:	learn: 0.2233419	total: 1m 22s	remaining: 57.8s
294:	learn: 0.2232550	total: 1m 22s	remaining: 57.6s
295:	learn: 0.2231381	total: 1m 23s	remaining: 57.3s
296:	learn: 0.2230709	total: 1m 23s	remaining: 57s
297:	learn: 0.2230105	total: 1m 23s	remaining: 56.7s
298:	learn: 0.2229926	total: 1m 23s	remaining: 56.4s
299:	learn: 0.2229791	total: 1m 24s	remaining: 56.1s
300:	learn: 0.2229349	total: 1m 24s	remaining: 55.8s
301:	learn: 0.2228654	total: 1m 24s	remaining: 55.6s
302:	learn: 0.2227887	total: 1m 25s	remaining: 55.3s
303:	learn: 0.2227380	total: 1m 25s	remaining: 55s
304:	learn: 0.2226323	total: 1m 25s	remaining: 54.7s
305:	learn: 0.2225763	total: 1m 25s	remaining: 54.4s
306:	learn: 0.2225092	total: 1m 26s	remaining: 54.1s
307:	learn: 0.2224520	total: 1m 26s	remaining: 53.8s
308:	learn: 0.2223610	total: 1m 26s	remaining: 53.5s
309:	learn: 0.2223102	total: 1m 26s	remaining: 53.3s
310:	learn: 0.2222576	total: 1m 27s	remaining: 53s
311:	learn: 0.2222058	total: 1m 27s	remaining: 52.7s
312:	learn: 0.2221726	total: 1m 27s	remaining: 52.4s
313:	learn: 0.2221249	total: 1m 28s	remaining: 52.1s
314:	learn: 0.2220597	total: 1m 28s	remaining: 51.8s
315:	learn: 0.2220371	total: 1m 28s	remaining: 51.6s
316:	learn: 0.2219853	total: 1m 28s	remaining: 51.3s
317:	learn: 0.2219393	total: 1m 29s	remaining: 51s
318:	learn: 0.2217625	total: 1m 29s	remaining: 50.7s
319:	learn: 0.2216709	total: 1m 29s	remaining: 50.5s
320:	learn: 0.2216061	total: 1m 30s	remaining: 50.2s
321:	learn: 0.2215124	total: 1m 30s	remaining: 49.9s
322:	learn: 0.2214739	total: 1m 30s	remaining: 49.7s
323:	learn: 0.2214268	total: 1m 30s	remaining: 49.4s
324:	learn: 0.2213594	total: 1m 31s	remaining: 49.1s
325:	learn: 0.2213353	total: 1m 31s	remaining: 48.8s
326:	learn: 0.2211970	total: 1m 31s	remaining: 48.5s
327:	learn: 0.2211422	total: 1m 32s	remaining: 48.3s
328:	learn: 0.2210916	total: 1m 32s	remaining: 48s
329:	learn: 0.2210391	total: 1m 32s	remaining: 47.7s
330:	learn: 0.2210076	total: 1m 32s	remaining: 47.4s

331:	learn: 0.2209935	total: 1m 33s	remaining: 47.2s
332:	learn: 0.2209653	total: 1m 33s	remaining: 46.9s
333:	learn: 0.2208980	total: 1m 33s	remaining: 46.6s
334:	learn: 0.2208724	total: 1m 34s	remaining: 46.3s
335:	learn: 0.2207968	total: 1m 34s	remaining: 46s
336:	learn: 0.2207327	total: 1m 34s	remaining: 45.8s
337:	learn: 0.2206927	total: 1m 34s	remaining: 45.5s
338:	learn: 0.2206503	total: 1m 35s	remaining: 45.2s
339:	learn: 0.2205673	total: 1m 35s	remaining: 44.9s
340:	learn: 0.2205302	total: 1m 35s	remaining: 44.7s
341:	learn: 0.2204237	total: 1m 36s	remaining: 44.4s
342:	learn: 0.2203792	total: 1m 36s	remaining: 44.1s
343:	learn: 0.2203490	total: 1m 36s	remaining: 43.9s
344:	learn: 0.2202763	total: 1m 36s	remaining: 43.6s
345:	learn: 0.2201767	total: 1m 37s	remaining: 43.3s
346:	learn: 0.2201011	total: 1m 37s	remaining: 43s
347:	learn: 0.2199977	total: 1m 37s	remaining: 42.8s
348:	learn: 0.2199471	total: 1m 38s	remaining: 42.5s
349:	learn: 0.2198928	total: 1m 38s	remaining: 42.2s
350:	learn: 0.2198089	total: 1m 38s	remaining: 41.9s
351:	learn: 0.2197558	total: 1m 38s	remaining: 41.6s
352:	learn: 0.2196939	total: 1m 39s	remaining: 41.3s
353:	learn: 0.2196495	total: 1m 39s	remaining: 41s
354:	learn: 0.2195611	total: 1m 39s	remaining: 40.8s
355:	learn: 0.2195197	total: 1m 40s	remaining: 40.5s
356:	learn: 0.2194576	total: 1m 40s	remaining: 40.2s
357:	learn: 0.2194150	total: 1m 40s	remaining: 39.9s
358:	learn: 0.2193863	total: 1m 40s	remaining: 39.6s
359:	learn: 0.2193606	total: 1m 41s	remaining: 39.4s
360:	learn: 0.2192257	total: 1m 41s	remaining: 39.1s
361:	learn: 0.2191534	total: 1m 41s	remaining: 38.8s
362:	learn: 0.2190906	total: 1m 42s	remaining: 38.5s
363:	learn: 0.2189959	total: 1m 42s	remaining: 38.2s
364:	learn: 0.2189588	total: 1m 42s	remaining: 38s
365:	learn: 0.2188945	total: 1m 42s	remaining: 37.7s
366:	learn: 0.2188844	total: 1m 43s	remaining: 37.4s
367:	learn: 0.2188456	total: 1m 43s	remaining: 37.1s
368:	learn: 0.2187835	total: 1m 43s	remaining: 36.9s
369:	learn: 0.2187476	total: 1m 44s	remaining: 36.6s
370:	learn: 0.2187265	total: 1m 44s	remaining: 36.3s
371:	learn: 0.2186571	total: 1m 44s	remaining: 36s
372:	learn: 0.2186131	total: 1m 44s	remaining: 35.7s
373:	learn: 0.2185514	total: 1m 45s	remaining: 35.5s
374:	learn: 0.2185436	total: 1m 45s	remaining: 35.2s
375:	learn: 0.2185283	total: 1m 45s	remaining: 34.9s
376:	learn: 0.2184505	total: 1m 46s	remaining: 34.6s
377:	learn: 0.2184264	total: 1m 46s	remaining: 34.3s
378:	learn: 0.2183407	total: 1m 46s	remaining: 34s

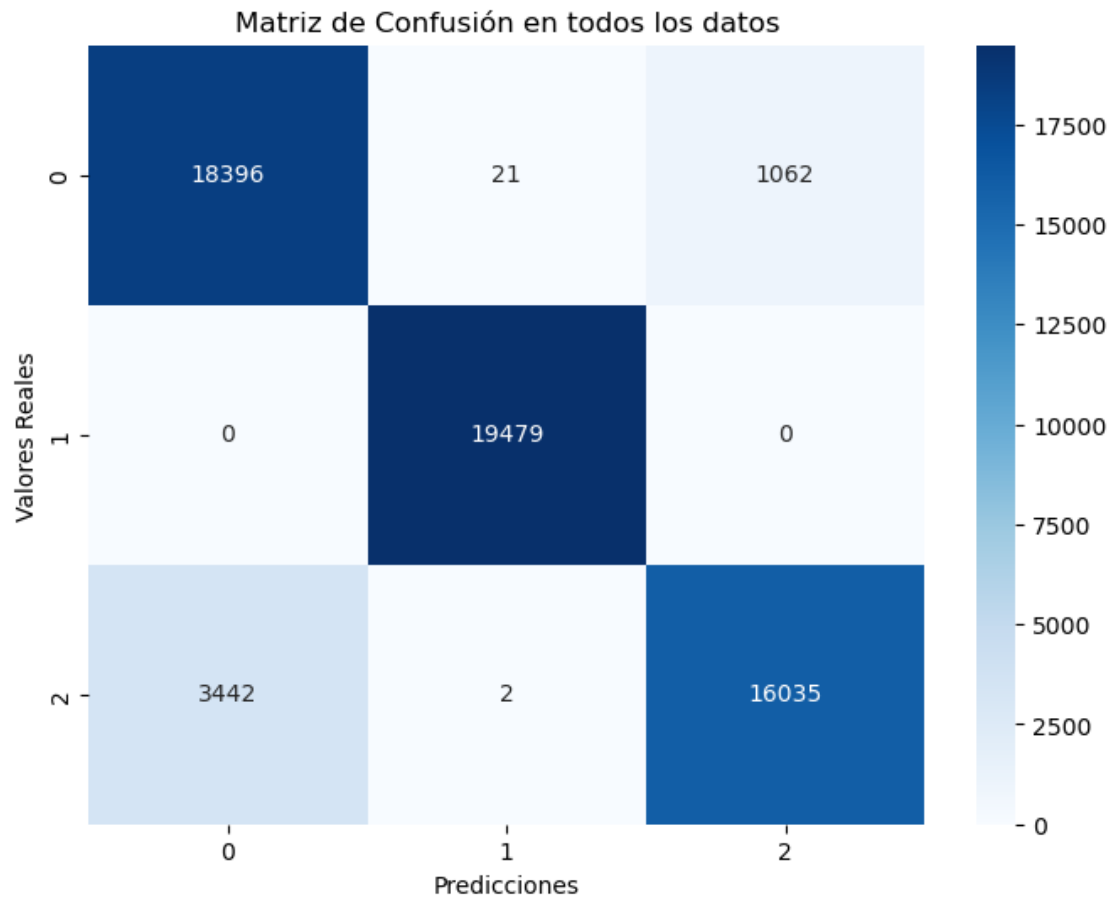
379:	learn: 0.2182651	total: 1m 46s	remaining: 33.8s
380:	learn: 0.2181838	total: 1m 47s	remaining: 33.5s
381:	learn: 0.2181160	total: 1m 47s	remaining: 33.2s
382:	learn: 0.2180666	total: 1m 47s	remaining: 32.9s
383:	learn: 0.2180039	total: 1m 48s	remaining: 32.6s
384:	learn: 0.2179672	total: 1m 48s	remaining: 32.4s
385:	learn: 0.2179390	total: 1m 48s	remaining: 32.1s
386:	learn: 0.2179067	total: 1m 48s	remaining: 31.8s
387:	learn: 0.2178366	total: 1m 49s	remaining: 31.5s
388:	learn: 0.2177422	total: 1m 49s	remaining: 31.2s
389:	learn: 0.2176700	total: 1m 49s	remaining: 31s
390:	learn: 0.2175726	total: 1m 50s	remaining: 30.7s
391:	learn: 0.2175187	total: 1m 50s	remaining: 30.4s
392:	learn: 0.2174733	total: 1m 50s	remaining: 30.1s
393:	learn: 0.2174509	total: 1m 50s	remaining: 29.8s
394:	learn: 0.2173081	total: 1m 51s	remaining: 29.5s
395:	learn: 0.2172811	total: 1m 51s	remaining: 29.3s
396:	learn: 0.2172249	total: 1m 51s	remaining: 29s
397:	learn: 0.2171537	total: 1m 51s	remaining: 28.7s
398:	learn: 0.2170979	total: 1m 52s	remaining: 28.4s
399:	learn: 0.2170645	total: 1m 52s	remaining: 28.1s
400:	learn: 0.2170105	total: 1m 52s	remaining: 27.8s
401:	learn: 0.2169722	total: 1m 52s	remaining: 27.5s
402:	learn: 0.2169366	total: 1m 53s	remaining: 27.2s
403:	learn: 0.2168326	total: 1m 53s	remaining: 27s
404:	learn: 0.2167016	total: 1m 53s	remaining: 26.7s
405:	learn: 0.2166529	total: 1m 53s	remaining: 26.4s
406:	learn: 0.2165697	total: 1m 54s	remaining: 26.1s
407:	learn: 0.2164792	total: 1m 54s	remaining: 25.8s
408:	learn: 0.2164167	total: 1m 54s	remaining: 25.5s
409:	learn: 0.2163670	total: 1m 54s	remaining: 25.2s
410:	learn: 0.2163166	total: 1m 55s	remaining: 24.9s
411:	learn: 0.2162961	total: 1m 55s	remaining: 24.7s
412:	learn: 0.2161867	total: 1m 55s	remaining: 24.4s
413:	learn: 0.2161490	total: 1m 56s	remaining: 24.1s
414:	learn: 0.2161241	total: 1m 56s	remaining: 23.8s
415:	learn: 0.2160300	total: 1m 56s	remaining: 23.5s
416:	learn: 0.2159967	total: 1m 56s	remaining: 23.2s
417:	learn: 0.2159822	total: 1m 57s	remaining: 23s
418:	learn: 0.2159385	total: 1m 57s	remaining: 22.7s
419:	learn: 0.2158851	total: 1m 57s	remaining: 22.4s
420:	learn: 0.2158101	total: 1m 57s	remaining: 22.1s
421:	learn: 0.2157962	total: 1m 58s	remaining: 21.8s
422:	learn: 0.2157532	total: 1m 58s	remaining: 21.6s
423:	learn: 0.2157251	total: 1m 58s	remaining: 21.3s
424:	learn: 0.2156782	total: 1m 59s	remaining: 21s
425:	learn: 0.2156557	total: 1m 59s	remaining: 20.7s
426:	learn: 0.2155956	total: 1m 59s	remaining: 20.4s

427:	learn: 0.2155770	total: 1m 59s	remaining: 20.2s
428:	learn: 0.2155328	total: 2m	remaining: 19.9s
429:	learn: 0.2154548	total: 2m	remaining: 19.6s
430:	learn: 0.2154063	total: 2m	remaining: 19.3s
431:	learn: 0.2153234	total: 2m 1s	remaining: 19.1s
432:	learn: 0.2152791	total: 2m 1s	remaining: 18.8s
433:	learn: 0.2152413	total: 2m 1s	remaining: 18.5s
434:	learn: 0.2151305	total: 2m 1s	remaining: 18.2s
435:	learn: 0.2150893	total: 2m 2s	remaining: 18s
436:	learn: 0.2150562	total: 2m 2s	remaining: 17.7s
437:	learn: 0.2149277	total: 2m 2s	remaining: 17.4s
438:	learn: 0.2149115	total: 2m 3s	remaining: 17.1s
439:	learn: 0.2148769	total: 2m 3s	remaining: 16.8s
440:	learn: 0.2148415	total: 2m 3s	remaining: 16.6s
441:	learn: 0.2147868	total: 2m 4s	remaining: 16.3s
442:	learn: 0.2146450	total: 2m 4s	remaining: 16s
443:	learn: 0.2145772	total: 2m 4s	remaining: 15.7s
444:	learn: 0.2144877	total: 2m 4s	remaining: 15.4s
445:	learn: 0.2144250	total: 2m 5s	remaining: 15.2s
446:	learn: 0.2143588	total: 2m 5s	remaining: 14.9s
447:	learn: 0.2142810	total: 2m 5s	remaining: 14.6s
448:	learn: 0.2142408	total: 2m 6s	remaining: 14.3s
449:	learn: 0.2141973	total: 2m 6s	remaining: 14s
450:	learn: 0.2141598	total: 2m 6s	remaining: 13.8s
451:	learn: 0.2141094	total: 2m 6s	remaining: 13.5s
452:	learn: 0.2140869	total: 2m 7s	remaining: 13.2s
453:	learn: 0.2139979	total: 2m 7s	remaining: 12.9s
454:	learn: 0.2138975	total: 2m 7s	remaining: 12.6s
455:	learn: 0.2138709	total: 2m 8s	remaining: 12.4s
456:	learn: 0.2138340	total: 2m 8s	remaining: 12.1s
457:	learn: 0.2137593	total: 2m 8s	remaining: 11.8s
458:	learn: 0.2136907	total: 2m 8s	remaining: 11.5s
459:	learn: 0.2136451	total: 2m 9s	remaining: 11.2s
460:	learn: 0.2135870	total: 2m 9s	remaining: 10.9s
461:	learn: 0.2135300	total: 2m 9s	remaining: 10.7s
462:	learn: 0.2135026	total: 2m 9s	remaining: 10.4s
463:	learn: 0.2134254	total: 2m 10s	remaining: 10.1s
464:	learn: 0.2133631	total: 2m 10s	remaining: 9.82s
465:	learn: 0.2133288	total: 2m 10s	remaining: 9.54s
466:	learn: 0.2132852	total: 2m 10s	remaining: 9.25s
467:	learn: 0.2132127	total: 2m 11s	remaining: 8.97s
468:	learn: 0.2131531	total: 2m 11s	remaining: 8.69s
469:	learn: 0.2131193	total: 2m 11s	remaining: 8.41s
470:	learn: 0.2130375	total: 2m 11s	remaining: 8.13s
471:	learn: 0.2130188	total: 2m 12s	remaining: 7.84s
472:	learn: 0.2129868	total: 2m 12s	remaining: 7.56s
473:	learn: 0.2129417	total: 2m 12s	remaining: 7.28s
474:	learn: 0.2129329	total: 2m 12s	remaining: 7s

475:	learn: 0.2128419	total: 2m 13s	remaining: 6.72s
476:	learn: 0.2128128	total: 2m 13s	remaining: 6.44s
477:	learn: 0.2127101	total: 2m 13s	remaining: 6.16s
478:	learn: 0.2126206	total: 2m 14s	remaining: 5.88s
479:	learn: 0.2125412	total: 2m 14s	remaining: 5.6s
480:	learn: 0.2124489	total: 2m 14s	remaining: 5.32s
481:	learn: 0.2124103	total: 2m 14s	remaining: 5.04s
482:	learn: 0.2123546	total: 2m 15s	remaining: 4.76s
483:	learn: 0.2122767	total: 2m 15s	remaining: 4.48s
484:	learn: 0.2122670	total: 2m 15s	remaining: 4.2s
485:	learn: 0.2122574	total: 2m 16s	remaining: 3.92s
486:	learn: 0.2122450	total: 2m 16s	remaining: 3.64s
487:	learn: 0.2121389	total: 2m 16s	remaining: 3.36s
488:	learn: 0.2121059	total: 2m 16s	remaining: 3.08s
489:	learn: 0.2120672	total: 2m 17s	remaining: 2.8s
490:	learn: 0.2120043	total: 2m 17s	remaining: 2.52s
491:	learn: 0.2119010	total: 2m 17s	remaining: 2.24s
492:	learn: 0.2118231	total: 2m 18s	remaining: 1.96s
493:	learn: 0.2117792	total: 2m 18s	remaining: 1.68s
494:	learn: 0.2117320	total: 2m 18s	remaining: 1.4s
495:	learn: 0.2117065	total: 2m 19s	remaining: 1.12s
496:	learn: 0.2116843	total: 2m 19s	remaining: 841ms
497:	learn: 0.2116341	total: 2m 19s	remaining: 561ms
498:	learn: 0.2115835	total: 2m 19s	remaining: 280ms
499:	learn: 0.2115230	total: 2m 20s	remaining: 0us

Informe de Clasificación en todos los datos:

	precision	recall	f1-score	support
0	0.84	0.94	0.89	19479
1	1.00	1.00	1.00	19479
2	0.94	0.82	0.88	19479
accuracy			0.92	58437
macro avg	0.93	0.92	0.92	58437
weighted avg	0.93	0.92	0.92	58437



```
[27]: from sklearn.model_selection import cross_val_score

# Realiza cross-validation y muestra los resultados
scores = cross_val_score(catboost_model, X_resampled, y_resampled, cv=15,
    ↳scoring='accuracy')
print("Accuracy en cada fold:", scores)
print("Accuracy promedio:", scores.mean())

# Entrena el modelo CatBoost en todos los datos de entrenamiento
catboost_model.fit(X_resampled, y_resampled)

# Realiza predicciones en el conjunto de prueba
y_pred = catboost_model.predict(X_resampled)

# Muestra el informe de clasificación en todos los datos
print("Informe de Clasificación en todos los datos:")
print(classification_report(y_resampled, y_pred))
```

```

# Matriz de Confusión en todos los datos
confusion = confusion_matrix(y_resampled, y_pred)
plt.figure(figsize=(8, 6))
sns.heatmap(confusion, annot=True, fmt="d", cmap="Blues")
plt.title("Matriz de Confusión en todos los datos")
plt.xlabel("Predicciones")
plt.ylabel("Valores Reales")
plt.show()

```

Learning rate set to 0.174288

0:	learn: 0.9714116	total: 216ms	remaining: 1m 47s
1:	learn: 0.8883859	total: 427ms	remaining: 1m 46s
2:	learn: 0.8296581	total: 597ms	remaining: 1m 38s
3:	learn: 0.7135603	total: 809ms	remaining: 1m 40s
4:	learn: 0.6669661	total: 1s	remaining: 1m 39s
5:	learn: 0.6403400	total: 1.18s	remaining: 1m 37s
6:	learn: 0.5962975	total: 1.37s	remaining: 1m 36s
7:	learn: 0.5790478	total: 1.56s	remaining: 1m 35s
8:	learn: 0.5279892	total: 1.77s	remaining: 1m 36s
9:	learn: 0.4893306	total: 1.97s	remaining: 1m 36s
10:	learn: 0.4589302	total: 2.17s	remaining: 1m 36s
11:	learn: 0.4343142	total: 2.41s	remaining: 1m 37s
12:	learn: 0.4120600	total: 2.64s	remaining: 1m 38s
13:	learn: 0.3940240	total: 2.87s	remaining: 1m 39s
14:	learn: 0.3705987	total: 3.14s	remaining: 1m 41s
15:	learn: 0.3516192	total: 3.42s	remaining: 1m 43s
16:	learn: 0.3356508	total: 3.7s	remaining: 1m 45s
17:	learn: 0.3316767	total: 3.94s	remaining: 1m 45s
18:	learn: 0.3193714	total: 4.22s	remaining: 1m 46s
19:	learn: 0.3085673	total: 4.47s	remaining: 1m 47s
20:	learn: 0.2999999	total: 4.74s	remaining: 1m 48s
21:	learn: 0.2983816	total: 4.99s	remaining: 1m 48s
22:	learn: 0.2909197	total: 5.24s	remaining: 1m 48s
23:	learn: 0.2846054	total: 5.49s	remaining: 1m 48s
24:	learn: 0.2783539	total: 5.75s	remaining: 1m 49s
25:	learn: 0.2765616	total: 6s	remaining: 1m 49s
26:	learn: 0.2730960	total: 6.26s	remaining: 1m 49s
27:	learn: 0.2688300	total: 6.49s	remaining: 1m 49s
28:	learn: 0.2681816	total: 6.75s	remaining: 1m 49s
29:	learn: 0.2650790	total: 7.06s	remaining: 1m 50s
30:	learn: 0.2646178	total: 7.34s	remaining: 1m 51s
31:	learn: 0.2639859	total: 7.6s	remaining: 1m 51s
32:	learn: 0.2632060	total: 7.91s	remaining: 1m 51s
33:	learn: 0.2625286	total: 8.16s	remaining: 1m 51s
34:	learn: 0.2601828	total: 8.49s	remaining: 1m 52s
35:	learn: 0.2595424	total: 8.78s	remaining: 1m 53s
36:	learn: 0.2585046	total: 9.05s	remaining: 1m 53s

37:	learn: 0.2579184	total: 9.31s	remaining: 1m 53s
38:	learn: 0.2574550	total: 9.59s	remaining: 1m 53s
39:	learn: 0.2571675	total: 9.9s	remaining: 1m 53s
40:	learn: 0.2553037	total: 10.2s	remaining: 1m 54s
41:	learn: 0.2550470	total: 10.5s	remaining: 1m 53s
42:	learn: 0.2548083	total: 10.7s	remaining: 1m 54s
43:	learn: 0.2543934	total: 11s	remaining: 1m 54s
44:	learn: 0.2540256	total: 11.3s	remaining: 1m 54s
45:	learn: 0.2537058	total: 11.6s	remaining: 1m 54s
46:	learn: 0.2533642	total: 11.9s	remaining: 1m 54s
47:	learn: 0.2530995	total: 12.1s	remaining: 1m 54s
48:	learn: 0.2529461	total: 12.4s	remaining: 1m 54s
49:	learn: 0.2528595	total: 12.6s	remaining: 1m 53s
50:	learn: 0.2524857	total: 12.9s	remaining: 1m 53s
51:	learn: 0.2524201	total: 13.2s	remaining: 1m 53s
52:	learn: 0.2513606	total: 13.4s	remaining: 1m 53s
53:	learn: 0.2512054	total: 13.7s	remaining: 1m 53s
54:	learn: 0.2510299	total: 14s	remaining: 1m 53s
55:	learn: 0.2506766	total: 14.3s	remaining: 1m 53s
56:	learn: 0.2480711	total: 14.6s	remaining: 1m 53s
57:	learn: 0.2476867	total: 14.9s	remaining: 1m 53s
58:	learn: 0.2473235	total: 15.1s	remaining: 1m 53s
59:	learn: 0.2470734	total: 15.4s	remaining: 1m 53s
60:	learn: 0.2468765	total: 15.7s	remaining: 1m 52s
61:	learn: 0.2461521	total: 16s	remaining: 1m 52s
62:	learn: 0.2459054	total: 16.2s	remaining: 1m 52s
63:	learn: 0.2455215	total: 16.5s	remaining: 1m 52s
64:	learn: 0.2453901	total: 16.8s	remaining: 1m 52s
65:	learn: 0.2449699	total: 17s	remaining: 1m 52s
66:	learn: 0.2447858	total: 17.3s	remaining: 1m 51s
67:	learn: 0.2446668	total: 17.5s	remaining: 1m 51s
68:	learn: 0.2445145	total: 17.8s	remaining: 1m 51s
69:	learn: 0.2441189	total: 18s	remaining: 1m 50s
70:	learn: 0.2436264	total: 18.3s	remaining: 1m 50s
71:	learn: 0.2432725	total: 18.5s	remaining: 1m 50s
72:	learn: 0.2431376	total: 18.7s	remaining: 1m 49s
73:	learn: 0.2429173	total: 19s	remaining: 1m 49s
74:	learn: 0.2427394	total: 19.2s	remaining: 1m 48s
75:	learn: 0.2426289	total: 19.5s	remaining: 1m 48s
76:	learn: 0.2424946	total: 19.7s	remaining: 1m 48s
77:	learn: 0.2423364	total: 20s	remaining: 1m 48s
78:	learn: 0.2422881	total: 20.2s	remaining: 1m 47s
79:	learn: 0.2422076	total: 20.4s	remaining: 1m 47s
80:	learn: 0.2419579	total: 20.7s	remaining: 1m 46s
81:	learn: 0.2419249	total: 20.9s	remaining: 1m 46s
82:	learn: 0.2417942	total: 21.2s	remaining: 1m 46s
83:	learn: 0.2417194	total: 21.4s	remaining: 1m 46s
84:	learn: 0.2416088	total: 21.7s	remaining: 1m 45s

85:	learn: 0.2415298	total: 21.9s	remaining: 1m 45s
86:	learn: 0.2413111	total: 22.2s	remaining: 1m 45s
87:	learn: 0.2412423	total: 22.4s	remaining: 1m 44s
88:	learn: 0.2412078	total: 22.7s	remaining: 1m 44s
89:	learn: 0.2411015	total: 22.9s	remaining: 1m 44s
90:	learn: 0.2410079	total: 23.2s	remaining: 1m 44s
91:	learn: 0.2408366	total: 23.5s	remaining: 1m 44s
92:	learn: 0.2406708	total: 23.7s	remaining: 1m 43s
93:	learn: 0.2404720	total: 24s	remaining: 1m 43s
94:	learn: 0.2403533	total: 24.3s	remaining: 1m 43s
95:	learn: 0.2401701	total: 24.6s	remaining: 1m 43s
96:	learn: 0.2400213	total: 24.8s	remaining: 1m 43s
97:	learn: 0.2399512	total: 25.1s	remaining: 1m 43s
98:	learn: 0.2398818	total: 25.4s	remaining: 1m 42s
99:	learn: 0.2398007	total: 25.7s	remaining: 1m 42s
100:	learn: 0.2397571	total: 25.9s	remaining: 1m 42s
101:	learn: 0.2397261	total: 26.2s	remaining: 1m 42s
102:	learn: 0.2396207	total: 26.5s	remaining: 1m 42s
103:	learn: 0.2395540	total: 26.7s	remaining: 1m 41s
104:	learn: 0.2393897	total: 27s	remaining: 1m 41s
105:	learn: 0.2393530	total: 27.3s	remaining: 1m 41s
106:	learn: 0.2391673	total: 27.6s	remaining: 1m 41s
107:	learn: 0.2391376	total: 27.9s	remaining: 1m 41s
108:	learn: 0.2389198	total: 28.1s	remaining: 1m 40s
109:	learn: 0.2388626	total: 28.4s	remaining: 1m 40s
110:	learn: 0.2385953	total: 28.6s	remaining: 1m 40s
111:	learn: 0.2384613	total: 28.9s	remaining: 1m 40s
112:	learn: 0.2366635	total: 29.2s	remaining: 1m 39s
113:	learn: 0.2365764	total: 29.5s	remaining: 1m 39s
114:	learn: 0.2364672	total: 29.7s	remaining: 1m 39s
115:	learn: 0.2363843	total: 30s	remaining: 1m 39s
116:	learn: 0.2362100	total: 30.3s	remaining: 1m 39s
117:	learn: 0.2348578	total: 30.6s	remaining: 1m 38s
118:	learn: 0.2347272	total: 30.8s	remaining: 1m 38s
119:	learn: 0.2346335	total: 31.1s	remaining: 1m 38s
120:	learn: 0.2345410	total: 31.4s	remaining: 1m 38s
121:	learn: 0.2344517	total: 31.7s	remaining: 1m 38s
122:	learn: 0.2344069	total: 31.9s	remaining: 1m 37s
123:	learn: 0.2342873	total: 32.3s	remaining: 1m 37s
124:	learn: 0.2342226	total: 32.6s	remaining: 1m 37s
125:	learn: 0.2340870	total: 32.9s	remaining: 1m 37s
126:	learn: 0.2339503	total: 33.2s	remaining: 1m 37s
127:	learn: 0.2337967	total: 33.5s	remaining: 1m 37s
128:	learn: 0.2337159	total: 33.8s	remaining: 1m 37s
129:	learn: 0.2329422	total: 34s	remaining: 1m 36s
130:	learn: 0.2328890	total: 34.2s	remaining: 1m 36s
131:	learn: 0.2328210	total: 34.5s	remaining: 1m 36s
132:	learn: 0.2326585	total: 34.7s	remaining: 1m 35s

133:	learn: 0.2325150	total: 35s	remaining: 1m 35s
134:	learn: 0.2323563	total: 35.2s	remaining: 1m 35s
135:	learn: 0.2322944	total: 35.4s	remaining: 1m 34s
136:	learn: 0.2322447	total: 35.7s	remaining: 1m 34s
137:	learn: 0.2317216	total: 36s	remaining: 1m 34s
138:	learn: 0.2315993	total: 36.2s	remaining: 1m 34s
139:	learn: 0.2314762	total: 36.5s	remaining: 1m 33s
140:	learn: 0.2314090	total: 36.7s	remaining: 1m 33s
141:	learn: 0.2313726	total: 37s	remaining: 1m 33s
142:	learn: 0.2313326	total: 37.2s	remaining: 1m 32s
143:	learn: 0.2312485	total: 37.5s	remaining: 1m 32s
144:	learn: 0.2311897	total: 37.8s	remaining: 1m 32s
145:	learn: 0.2311596	total: 38.1s	remaining: 1m 32s
146:	learn: 0.2311168	total: 38.4s	remaining: 1m 32s
147:	learn: 0.2310808	total: 38.6s	remaining: 1m 31s
148:	learn: 0.2309639	total: 38.9s	remaining: 1m 31s
149:	learn: 0.2309205	total: 39.2s	remaining: 1m 31s
150:	learn: 0.2307987	total: 39.5s	remaining: 1m 31s
151:	learn: 0.2306582	total: 39.8s	remaining: 1m 31s
152:	learn: 0.2303297	total: 40.1s	remaining: 1m 30s
153:	learn: 0.2302708	total: 40.3s	remaining: 1m 30s
154:	learn: 0.2301242	total: 40.6s	remaining: 1m 30s
155:	learn: 0.2300542	total: 40.9s	remaining: 1m 30s
156:	learn: 0.2300047	total: 41.1s	remaining: 1m 29s
157:	learn: 0.2299234	total: 41.4s	remaining: 1m 29s
158:	learn: 0.2298188	total: 41.7s	remaining: 1m 29s
159:	learn: 0.2297182	total: 41.9s	remaining: 1m 29s
160:	learn: 0.2296349	total: 42.2s	remaining: 1m 28s
161:	learn: 0.2295680	total: 42.5s	remaining: 1m 28s
162:	learn: 0.2294164	total: 42.8s	remaining: 1m 28s
163:	learn: 0.2293734	total: 43s	remaining: 1m 28s
164:	learn: 0.2292383	total: 43.3s	remaining: 1m 28s
165:	learn: 0.2292076	total: 43.6s	remaining: 1m 27s
166:	learn: 0.2289107	total: 43.9s	remaining: 1m 27s
167:	learn: 0.2288664	total: 44.1s	remaining: 1m 27s
168:	learn: 0.2288311	total: 44.4s	remaining: 1m 26s
169:	learn: 0.2287651	total: 44.7s	remaining: 1m 26s
170:	learn: 0.2287362	total: 44.9s	remaining: 1m 26s
171:	learn: 0.2286163	total: 45.2s	remaining: 1m 26s
172:	learn: 0.2285594	total: 45.5s	remaining: 1m 25s
173:	learn: 0.2285351	total: 45.7s	remaining: 1m 25s
174:	learn: 0.2283976	total: 46s	remaining: 1m 25s
175:	learn: 0.2282559	total: 46.3s	remaining: 1m 25s
176:	learn: 0.2281780	total: 46.6s	remaining: 1m 24s
177:	learn: 0.2281288	total: 46.8s	remaining: 1m 24s
178:	learn: 0.2281100	total: 47.1s	remaining: 1m 24s
179:	learn: 0.2279682	total: 47.4s	remaining: 1m 24s
180:	learn: 0.2278185	total: 47.7s	remaining: 1m 23s

181:	learn: 0.2276541	total: 48s	remaining: 1m 23s
182:	learn: 0.2275839	total: 48.2s	remaining: 1m 23s
183:	learn: 0.2275235	total: 48.5s	remaining: 1m 23s
184:	learn: 0.2274702	total: 48.8s	remaining: 1m 23s
185:	learn: 0.2273976	total: 49s	remaining: 1m 22s
186:	learn: 0.2271701	total: 49.3s	remaining: 1m 22s
187:	learn: 0.2270944	total: 49.6s	remaining: 1m 22s
188:	learn: 0.2270616	total: 49.9s	remaining: 1m 22s
189:	learn: 0.2270028	total: 50.1s	remaining: 1m 21s
190:	learn: 0.2269774	total: 50.4s	remaining: 1m 21s
191:	learn: 0.2269199	total: 50.6s	remaining: 1m 21s
192:	learn: 0.2267994	total: 50.9s	remaining: 1m 20s
193:	learn: 0.2267581	total: 51.1s	remaining: 1m 20s
194:	learn: 0.2267159	total: 51.4s	remaining: 1m 20s
195:	learn: 0.2266925	total: 51.6s	remaining: 1m 20s
196:	learn: 0.2266207	total: 51.9s	remaining: 1m 19s
197:	learn: 0.2265361	total: 52.1s	remaining: 1m 19s
198:	learn: 0.2264699	total: 52.3s	remaining: 1m 19s
199:	learn: 0.2264456	total: 52.6s	remaining: 1m 18s
200:	learn: 0.2263738	total: 52.8s	remaining: 1m 18s
201:	learn: 0.2262672	total: 53s	remaining: 1m 18s
202:	learn: 0.2262088	total: 53.3s	remaining: 1m 17s
203:	learn: 0.2260769	total: 53.6s	remaining: 1m 17s
204:	learn: 0.2260373	total: 53.8s	remaining: 1m 17s
205:	learn: 0.2259029	total: 54.1s	remaining: 1m 17s
206:	learn: 0.2258580	total: 54.3s	remaining: 1m 16s
207:	learn: 0.2256425	total: 54.5s	remaining: 1m 16s
208:	learn: 0.2254986	total: 54.8s	remaining: 1m 16s
209:	learn: 0.2253925	total: 55s	remaining: 1m 16s
210:	learn: 0.2253756	total: 55.3s	remaining: 1m 15s
211:	learn: 0.2253355	total: 55.6s	remaining: 1m 15s
212:	learn: 0.2252712	total: 55.8s	remaining: 1m 15s
213:	learn: 0.2252049	total: 56.1s	remaining: 1m 15s
214:	learn: 0.2251542	total: 56.4s	remaining: 1m 14s
215:	learn: 0.2250771	total: 56.7s	remaining: 1m 14s
216:	learn: 0.2250057	total: 56.9s	remaining: 1m 14s
217:	learn: 0.2249165	total: 57.2s	remaining: 1m 14s
218:	learn: 0.2248723	total: 57.5s	remaining: 1m 13s
219:	learn: 0.2247872	total: 57.8s	remaining: 1m 13s
220:	learn: 0.2247673	total: 58.1s	remaining: 1m 13s
221:	learn: 0.2247505	total: 58.4s	remaining: 1m 13s
222:	learn: 0.2246981	total: 58.7s	remaining: 1m 12s
223:	learn: 0.2245506	total: 59s	remaining: 1m 12s
224:	learn: 0.2245002	total: 59.2s	remaining: 1m 12s
225:	learn: 0.2242694	total: 59.4s	remaining: 1m 12s
226:	learn: 0.2241770	total: 59.7s	remaining: 1m 11s
227:	learn: 0.2240715	total: 60s	remaining: 1m 11s
228:	learn: 0.2240602	total: 1m	remaining: 1m 11s

229:	learn: 0.2240075	total: 1m	remaining: 1m 11s
230:	learn: 0.2239460	total: 1m	remaining: 1m 10s
231:	learn: 0.2238056	total: 1m 1s	remaining: 1m 10s
232:	learn: 0.2237178	total: 1m 1s	remaining: 1m 10s
233:	learn: 0.2236282	total: 1m 1s	remaining: 1m 10s
234:	learn: 0.2235812	total: 1m 1s	remaining: 1m 9s
235:	learn: 0.2233911	total: 1m 2s	remaining: 1m 9s
236:	learn: 0.2232690	total: 1m 2s	remaining: 1m 9s
237:	learn: 0.2231980	total: 1m 2s	remaining: 1m 9s
238:	learn: 0.2231542	total: 1m 3s	remaining: 1m 8s
239:	learn: 0.2230832	total: 1m 3s	remaining: 1m 8s
240:	learn: 0.2230105	total: 1m 3s	remaining: 1m 8s
241:	learn: 0.2229370	total: 1m 3s	remaining: 1m 8s
242:	learn: 0.2228176	total: 1m 4s	remaining: 1m 7s
243:	learn: 0.2227498	total: 1m 4s	remaining: 1m 7s
244:	learn: 0.2227034	total: 1m 4s	remaining: 1m 7s
245:	learn: 0.2226841	total: 1m 4s	remaining: 1m 6s
246:	learn: 0.2226243	total: 1m 5s	remaining: 1m 6s
247:	learn: 0.2225293	total: 1m 5s	remaining: 1m 6s
248:	learn: 0.2224460	total: 1m 5s	remaining: 1m 6s
249:	learn: 0.2223360	total: 1m 5s	remaining: 1m 5s
250:	learn: 0.2222860	total: 1m 6s	remaining: 1m 5s
251:	learn: 0.2222405	total: 1m 6s	remaining: 1m 5s
252:	learn: 0.2222197	total: 1m 6s	remaining: 1m 5s
253:	learn: 0.2221844	total: 1m 6s	remaining: 1m 4s
254:	learn: 0.2220978	total: 1m 7s	remaining: 1m 4s
255:	learn: 0.2220878	total: 1m 7s	remaining: 1m 4s
256:	learn: 0.2220480	total: 1m 7s	remaining: 1m 3s
257:	learn: 0.2219420	total: 1m 7s	remaining: 1m 3s
258:	learn: 0.2218890	total: 1m 8s	remaining: 1m 3s
259:	learn: 0.2217927	total: 1m 8s	remaining: 1m 3s
260:	learn: 0.2217478	total: 1m 8s	remaining: 1m 2s
261:	learn: 0.2216962	total: 1m 8s	remaining: 1m 2s
262:	learn: 0.2215800	total: 1m 9s	remaining: 1m 2s
263:	learn: 0.2214839	total: 1m 9s	remaining: 1m 1s
264:	learn: 0.2214045	total: 1m 9s	remaining: 1m 1s
265:	learn: 0.2213328	total: 1m 9s	remaining: 1m 1s
266:	learn: 0.2212990	total: 1m 10s	remaining: 1m 1s
267:	learn: 0.2212471	total: 1m 10s	remaining: 1m
268:	learn: 0.2211113	total: 1m 10s	remaining: 1m
269:	learn: 0.2210710	total: 1m 10s	remaining: 1m
270:	learn: 0.2209936	total: 1m 11s	remaining: 1m
271:	learn: 0.2209423	total: 1m 11s	remaining: 59.8s
272:	learn: 0.2208806	total: 1m 11s	remaining: 59.5s
273:	learn: 0.2208223	total: 1m 11s	remaining: 59.2s
274:	learn: 0.2207429	total: 1m 12s	remaining: 59s
275:	learn: 0.2207201	total: 1m 12s	remaining: 58.7s
276:	learn: 0.2206213	total: 1m 12s	remaining: 58.5s

277:	learn: 0.2204791	total: 1m 12s	remaining: 58.2s
278:	learn: 0.2204529	total: 1m 13s	remaining: 58s
279:	learn: 0.2204050	total: 1m 13s	remaining: 57.7s
280:	learn: 0.2203679	total: 1m 13s	remaining: 57.5s
281:	learn: 0.2202621	total: 1m 14s	remaining: 57.2s
282:	learn: 0.2201744	total: 1m 14s	remaining: 57s
283:	learn: 0.2200902	total: 1m 14s	remaining: 56.7s
284:	learn: 0.2199859	total: 1m 14s	remaining: 56.5s
285:	learn: 0.2199715	total: 1m 15s	remaining: 56.2s
286:	learn: 0.2198897	total: 1m 15s	remaining: 56s
287:	learn: 0.2198371	total: 1m 15s	remaining: 55.7s
288:	learn: 0.2197175	total: 1m 15s	remaining: 55.5s
289:	learn: 0.2196677	total: 1m 16s	remaining: 55.2s
290:	learn: 0.2196261	total: 1m 16s	remaining: 54.9s
291:	learn: 0.2194898	total: 1m 16s	remaining: 54.7s
292:	learn: 0.2194637	total: 1m 17s	remaining: 54.4s
293:	learn: 0.2193227	total: 1m 17s	remaining: 54.2s
294:	learn: 0.2192435	total: 1m 17s	remaining: 53.9s
295:	learn: 0.2191722	total: 1m 17s	remaining: 53.6s
296:	learn: 0.2191111	total: 1m 18s	remaining: 53.4s
297:	learn: 0.2190832	total: 1m 18s	remaining: 53.1s
298:	learn: 0.2190189	total: 1m 18s	remaining: 52.9s
299:	learn: 0.2189854	total: 1m 18s	remaining: 52.6s
300:	learn: 0.2189752	total: 1m 19s	remaining: 52.3s
301:	learn: 0.2189134	total: 1m 19s	remaining: 52.1s
302:	learn: 0.2188738	total: 1m 19s	remaining: 51.9s
303:	learn: 0.2187970	total: 1m 20s	remaining: 51.6s
304:	learn: 0.2187597	total: 1m 20s	remaining: 51.4s
305:	learn: 0.2187190	total: 1m 20s	remaining: 51.1s
306:	learn: 0.2186702	total: 1m 20s	remaining: 50.9s
307:	learn: 0.2185934	total: 1m 21s	remaining: 50.6s
308:	learn: 0.2185637	total: 1m 21s	remaining: 50.4s
309:	learn: 0.2184513	total: 1m 21s	remaining: 50.1s
310:	learn: 0.2183835	total: 1m 21s	remaining: 49.8s
311:	learn: 0.2183367	total: 1m 22s	remaining: 49.5s
312:	learn: 0.2182818	total: 1m 22s	remaining: 49.3s
313:	learn: 0.2182351	total: 1m 22s	remaining: 49s
314:	learn: 0.2181555	total: 1m 22s	remaining: 48.7s
315:	learn: 0.2181044	total: 1m 23s	remaining: 48.5s
316:	learn: 0.2180534	total: 1m 23s	remaining: 48.2s
317:	learn: 0.2179942	total: 1m 23s	remaining: 47.9s
318:	learn: 0.2179390	total: 1m 23s	remaining: 47.6s
319:	learn: 0.2178663	total: 1m 24s	remaining: 47.4s
320:	learn: 0.2178399	total: 1m 24s	remaining: 47.1s
321:	learn: 0.2177328	total: 1m 24s	remaining: 46.9s
322:	learn: 0.2176996	total: 1m 25s	remaining: 46.6s
323:	learn: 0.2175522	total: 1m 25s	remaining: 46.3s
324:	learn: 0.2174587	total: 1m 25s	remaining: 46.1s

325:	learn: 0.2174177	total: 1m 25s	remaining: 45.8s
326:	learn: 0.2173736	total: 1m 26s	remaining: 45.5s
327:	learn: 0.2172380	total: 1m 26s	remaining: 45.3s
328:	learn: 0.2172089	total: 1m 26s	remaining: 45s
329:	learn: 0.2171356	total: 1m 26s	remaining: 44.7s
330:	learn: 0.2171121	total: 1m 27s	remaining: 44.5s
331:	learn: 0.2170597	total: 1m 27s	remaining: 44.2s
332:	learn: 0.2169967	total: 1m 27s	remaining: 44s
333:	learn: 0.2169630	total: 1m 27s	remaining: 43.7s
334:	learn: 0.2168929	total: 1m 28s	remaining: 43.4s
335:	learn: 0.2168705	total: 1m 28s	remaining: 43.2s
336:	learn: 0.2166873	total: 1m 28s	remaining: 42.9s
337:	learn: 0.2164502	total: 1m 29s	remaining: 42.7s
338:	learn: 0.2164207	total: 1m 29s	remaining: 42.4s
339:	learn: 0.2163719	total: 1m 29s	remaining: 42.1s
340:	learn: 0.2162639	total: 1m 29s	remaining: 41.9s
341:	learn: 0.2162079	total: 1m 30s	remaining: 41.6s
342:	learn: 0.2161508	total: 1m 30s	remaining: 41.4s
343:	learn: 0.2161249	total: 1m 30s	remaining: 41.1s
344:	learn: 0.2160693	total: 1m 30s	remaining: 40.8s
345:	learn: 0.2158923	total: 1m 31s	remaining: 40.6s
346:	learn: 0.2158065	total: 1m 31s	remaining: 40.3s
347:	learn: 0.2157411	total: 1m 31s	remaining: 40.1s
348:	learn: 0.2156216	total: 1m 31s	remaining: 39.8s
349:	learn: 0.2156146	total: 1m 32s	remaining: 39.5s
350:	learn: 0.2155807	total: 1m 32s	remaining: 39.3s
351:	learn: 0.2155117	total: 1m 32s	remaining: 39s
352:	learn: 0.2154511	total: 1m 33s	remaining: 38.8s
353:	learn: 0.2153879	total: 1m 33s	remaining: 38.5s
354:	learn: 0.2152904	total: 1m 33s	remaining: 38.2s
355:	learn: 0.2152256	total: 1m 33s	remaining: 38s
356:	learn: 0.2151520	total: 1m 34s	remaining: 37.7s
357:	learn: 0.2151250	total: 1m 34s	remaining: 37.4s
358:	learn: 0.2150779	total: 1m 34s	remaining: 37.2s
359:	learn: 0.2150362	total: 1m 34s	remaining: 36.9s
360:	learn: 0.2149445	total: 1m 35s	remaining: 36.7s
361:	learn: 0.2148130	total: 1m 35s	remaining: 36.4s
362:	learn: 0.2147709	total: 1m 35s	remaining: 36.1s
363:	learn: 0.2146611	total: 1m 36s	remaining: 35.9s
364:	learn: 0.2146130	total: 1m 36s	remaining: 35.6s
365:	learn: 0.2145663	total: 1m 36s	remaining: 35.4s
366:	learn: 0.2145168	total: 1m 36s	remaining: 35.1s
367:	learn: 0.2144469	total: 1m 37s	remaining: 34.9s
368:	learn: 0.2143831	total: 1m 37s	remaining: 34.6s
369:	learn: 0.2143391	total: 1m 37s	remaining: 34.3s
370:	learn: 0.2142722	total: 1m 38s	remaining: 34.1s
371:	learn: 0.2141426	total: 1m 38s	remaining: 33.8s
372:	learn: 0.2141206	total: 1m 38s	remaining: 33.5s

373:	learn: 0.2141014	total: 1m 38s	remaining: 33.3s
374:	learn: 0.2140594	total: 1m 38s	remaining: 33s
375:	learn: 0.2140437	total: 1m 39s	remaining: 32.7s
376:	learn: 0.2140019	total: 1m 39s	remaining: 32.5s
377:	learn: 0.2139463	total: 1m 39s	remaining: 32.2s
378:	learn: 0.2138733	total: 1m 40s	remaining: 31.9s
379:	learn: 0.2138353	total: 1m 40s	remaining: 31.7s
380:	learn: 0.2137948	total: 1m 40s	remaining: 31.4s
381:	learn: 0.2136965	total: 1m 40s	remaining: 31.1s
382:	learn: 0.2136435	total: 1m 41s	remaining: 30.9s
383:	learn: 0.2136035	total: 1m 41s	remaining: 30.6s
384:	learn: 0.2135536	total: 1m 41s	remaining: 30.3s
385:	learn: 0.2135395	total: 1m 41s	remaining: 30.1s
386:	learn: 0.2135097	total: 1m 41s	remaining: 29.8s
387:	learn: 0.2133958	total: 1m 42s	remaining: 29.5s
388:	learn: 0.2133640	total: 1m 42s	remaining: 29.2s
389:	learn: 0.2132913	total: 1m 42s	remaining: 29s
390:	learn: 0.2132385	total: 1m 42s	remaining: 28.7s
391:	learn: 0.2131385	total: 1m 43s	remaining: 28.5s
392:	learn: 0.2130779	total: 1m 43s	remaining: 28.2s
393:	learn: 0.2130118	total: 1m 43s	remaining: 27.9s
394:	learn: 0.2129548	total: 1m 44s	remaining: 27.7s
395:	learn: 0.2129089	total: 1m 44s	remaining: 27.4s
396:	learn: 0.2128657	total: 1m 44s	remaining: 27.1s
397:	learn: 0.2127721	total: 1m 44s	remaining: 26.9s
398:	learn: 0.2126626	total: 1m 45s	remaining: 26.6s
399:	learn: 0.2125766	total: 1m 45s	remaining: 26.4s
400:	learn: 0.2124988	total: 1m 45s	remaining: 26.1s
401:	learn: 0.2124552	total: 1m 46s	remaining: 25.9s
402:	learn: 0.2123941	total: 1m 46s	remaining: 25.6s
403:	learn: 0.2123669	total: 1m 46s	remaining: 25.3s
404:	learn: 0.2123239	total: 1m 46s	remaining: 25.1s
405:	learn: 0.2121848	total: 1m 47s	remaining: 24.8s
406:	learn: 0.2121412	total: 1m 47s	remaining: 24.6s
407:	learn: 0.2121113	total: 1m 47s	remaining: 24.3s
408:	learn: 0.2120547	total: 1m 47s	remaining: 24s
409:	learn: 0.2119166	total: 1m 48s	remaining: 23.8s
410:	learn: 0.2118895	total: 1m 48s	remaining: 23.5s
411:	learn: 0.2118168	total: 1m 48s	remaining: 23.2s
412:	learn: 0.2116351	total: 1m 49s	remaining: 23s
413:	learn: 0.2115412	total: 1m 49s	remaining: 22.7s
414:	learn: 0.2115137	total: 1m 49s	remaining: 22.4s
415:	learn: 0.2114883	total: 1m 49s	remaining: 22.2s
416:	learn: 0.2114383	total: 1m 50s	remaining: 21.9s
417:	learn: 0.2113667	total: 1m 50s	remaining: 21.7s
418:	learn: 0.2113288	total: 1m 50s	remaining: 21.4s
419:	learn: 0.2113191	total: 1m 50s	remaining: 21.1s
420:	learn: 0.2112585	total: 1m 51s	remaining: 20.9s

421:	learn: 0.2112438	total: 1m 51s	remaining: 20.6s
422:	learn: 0.2111858	total: 1m 51s	remaining: 20.3s
423:	learn: 0.2111008	total: 1m 52s	remaining: 20.1s
424:	learn: 0.2110342	total: 1m 52s	remaining: 19.8s
425:	learn: 0.2108421	total: 1m 52s	remaining: 19.6s
426:	learn: 0.2107737	total: 1m 52s	remaining: 19.3s
427:	learn: 0.2107279	total: 1m 53s	remaining: 19s
428:	learn: 0.2106581	total: 1m 53s	remaining: 18.8s
429:	learn: 0.2106214	total: 1m 53s	remaining: 18.5s
430:	learn: 0.2105510	total: 1m 53s	remaining: 18.2s
431:	learn: 0.2103948	total: 1m 54s	remaining: 18s
432:	learn: 0.2103231	total: 1m 54s	remaining: 17.7s
433:	learn: 0.2102521	total: 1m 54s	remaining: 17.4s
434:	learn: 0.2102008	total: 1m 54s	remaining: 17.2s
435:	learn: 0.2101700	total: 1m 55s	remaining: 16.9s
436:	learn: 0.2101303	total: 1m 55s	remaining: 16.6s
437:	learn: 0.2100688	total: 1m 55s	remaining: 16.4s
438:	learn: 0.2100086	total: 1m 55s	remaining: 16.1s
439:	learn: 0.2099754	total: 1m 56s	remaining: 15.8s
440:	learn: 0.2099326	total: 1m 56s	remaining: 15.6s
441:	learn: 0.2098752	total: 1m 56s	remaining: 15.3s
442:	learn: 0.2098429	total: 1m 56s	remaining: 15s
443:	learn: 0.2098052	total: 1m 57s	remaining: 14.8s
444:	learn: 0.2097830	total: 1m 57s	remaining: 14.5s
445:	learn: 0.2097578	total: 1m 57s	remaining: 14.2s
446:	learn: 0.2097471	total: 1m 57s	remaining: 14s
447:	learn: 0.2097294	total: 1m 57s	remaining: 13.7s
448:	learn: 0.2096716	total: 1m 58s	remaining: 13.4s
449:	learn: 0.2096144	total: 1m 58s	remaining: 13.1s
450:	learn: 0.2095836	total: 1m 58s	remaining: 12.9s
451:	learn: 0.2094742	total: 1m 58s	remaining: 12.6s
452:	learn: 0.2094257	total: 1m 58s	remaining: 12.3s
453:	learn: 0.2093522	total: 1m 59s	remaining: 12.1s
454:	learn: 0.2092736	total: 1m 59s	remaining: 11.8s
455:	learn: 0.2092401	total: 1m 59s	remaining: 11.5s
456:	learn: 0.2091888	total: 1m 59s	remaining: 11.3s
457:	learn: 0.2091517	total: 2m	remaining: 11s
458:	learn: 0.2091198	total: 2m	remaining: 10.7s
459:	learn: 0.2090748	total: 2m	remaining: 10.5s
460:	learn: 0.2090425	total: 2m	remaining: 10.2s
461:	learn: 0.2089691	total: 2m 1s	remaining: 9.96s
462:	learn: 0.2089100	total: 2m 1s	remaining: 9.7s
463:	learn: 0.2088911	total: 2m 1s	remaining: 9.44s
464:	learn: 0.2088584	total: 2m 1s	remaining: 9.18s
465:	learn: 0.2088152	total: 2m 2s	remaining: 8.91s
466:	learn: 0.2087766	total: 2m 2s	remaining: 8.65s
467:	learn: 0.2086904	total: 2m 2s	remaining: 8.39s
468:	learn: 0.2085675	total: 2m 3s	remaining: 8.13s

469:	learn: 0.2085334	total: 2m 3s	remaining: 7.87s
470:	learn: 0.2084508	total: 2m 3s	remaining: 7.61s
471:	learn: 0.2083800	total: 2m 3s	remaining: 7.35s
472:	learn: 0.2083563	total: 2m 4s	remaining: 7.09s
473:	learn: 0.2083113	total: 2m 4s	remaining: 6.83s
474:	learn: 0.2082554	total: 2m 4s	remaining: 6.56s
475:	learn: 0.2082233	total: 2m 4s	remaining: 6.3s
476:	learn: 0.2082065	total: 2m 5s	remaining: 6.04s
477:	learn: 0.2081413	total: 2m 5s	remaining: 5.78s
478:	learn: 0.2081296	total: 2m 5s	remaining: 5.51s
479:	learn: 0.2081101	total: 2m 6s	remaining: 5.25s
480:	learn: 0.2080886	total: 2m 6s	remaining: 4.99s
481:	learn: 0.2080585	total: 2m 6s	remaining: 4.73s
482:	learn: 0.2080034	total: 2m 6s	remaining: 4.47s
483:	learn: 0.2079037	total: 2m 7s	remaining: 4.2s
484:	learn: 0.2078227	total: 2m 7s	remaining: 3.94s
485:	learn: 0.2077890	total: 2m 7s	remaining: 3.68s
486:	learn: 0.2077582	total: 2m 7s	remaining: 3.42s
487:	learn: 0.2076887	total: 2m 8s	remaining: 3.15s
488:	learn: 0.2075868	total: 2m 8s	remaining: 2.89s
489:	learn: 0.2074850	total: 2m 8s	remaining: 2.63s
490:	learn: 0.2074560	total: 2m 9s	remaining: 2.37s
491:	learn: 0.2073910	total: 2m 9s	remaining: 2.1s
492:	learn: 0.2073779	total: 2m 9s	remaining: 1.84s
493:	learn: 0.2073656	total: 2m 9s	remaining: 1.58s
494:	learn: 0.2072971	total: 2m 10s	remaining: 1.31s
495:	learn: 0.2072011	total: 2m 10s	remaining: 1.05s
496:	learn: 0.2071757	total: 2m 10s	remaining: 788ms
497:	learn: 0.2071370	total: 2m 10s	remaining: 526ms
498:	learn: 0.2070799	total: 2m 11s	remaining: 263ms
499:	learn: 0.2070240	total: 2m 11s	remaining: 0us

Learning rate set to 0.174288

0:	learn: 0.9720334	total: 251ms	remaining: 2m 5s
1:	learn: 0.8891876	total: 508ms	remaining: 2m 6s
2:	learn: 0.8306081	total: 730ms	remaining: 2m
3:	learn: 0.7389512	total: 943ms	remaining: 1m 56s
4:	learn: 0.6904103	total: 1.14s	remaining: 1m 52s
5:	learn: 0.6638463	total: 1.31s	remaining: 1m 48s
6:	learn: 0.5899247	total: 1.53s	remaining: 1m 47s
7:	learn: 0.5368518	total: 1.73s	remaining: 1m 46s
8:	learn: 0.4923155	total: 1.93s	remaining: 1m 45s
9:	learn: 0.4697140	total: 2.13s	remaining: 1m 44s
10:	learn: 0.4385098	total: 2.33s	remaining: 1m 43s
11:	learn: 0.4137625	total: 2.52s	remaining: 1m 42s
12:	learn: 0.3874317	total: 2.74s	remaining: 1m 42s
13:	learn: 0.3819872	total: 2.96s	remaining: 1m 42s
14:	learn: 0.3646877	total: 3.19s	remaining: 1m 42s
15:	learn: 0.3479687	total: 3.45s	remaining: 1m 44s

16:	learn: 0.3453353	total: 3.71s	remaining: 1m 45s
17:	learn: 0.3320221	total: 4.02s	remaining: 1m 47s
18:	learn: 0.3226949	total: 4.31s	remaining: 1m 49s
19:	learn: 0.3207704	total: 4.56s	remaining: 1m 49s
20:	learn: 0.3114111	total: 4.87s	remaining: 1m 51s
21:	learn: 0.3037195	total: 5.16s	remaining: 1m 52s
22:	learn: 0.3011185	total: 5.43s	remaining: 1m 52s
23:	learn: 0.2964545	total: 5.69s	remaining: 1m 52s
24:	learn: 0.2936208	total: 6s	remaining: 1m 53s
25:	learn: 0.2918343	total: 6.29s	remaining: 1m 54s
26:	learn: 0.2859664	total: 6.58s	remaining: 1m 55s
27:	learn: 0.2838492	total: 6.87s	remaining: 1m 55s
28:	learn: 0.2806397	total: 7.14s	remaining: 1m 55s
29:	learn: 0.2765232	total: 7.42s	remaining: 1m 56s
30:	learn: 0.2754406	total: 7.69s	remaining: 1m 56s
31:	learn: 0.2702315	total: 7.99s	remaining: 1m 56s
32:	learn: 0.2697628	total: 8.27s	remaining: 1m 57s
33:	learn: 0.2655872	total: 8.56s	remaining: 1m 57s
34:	learn: 0.2632848	total: 8.87s	remaining: 1m 57s
35:	learn: 0.2628070	total: 9.13s	remaining: 1m 57s
36:	learn: 0.2595584	total: 9.41s	remaining: 1m 57s
37:	learn: 0.2555544	total: 9.69s	remaining: 1m 57s
38:	learn: 0.2526560	total: 9.96s	remaining: 1m 57s
39:	learn: 0.2515036	total: 10.2s	remaining: 1m 57s
40:	learn: 0.2511185	total: 10.5s	remaining: 1m 57s
41:	learn: 0.2507499	total: 10.8s	remaining: 1m 57s
42:	learn: 0.2502480	total: 11.1s	remaining: 1m 57s
43:	learn: 0.2500829	total: 11.4s	remaining: 1m 57s
44:	learn: 0.2497698	total: 11.6s	remaining: 1m 57s
45:	learn: 0.2496366	total: 11.9s	remaining: 1m 57s
46:	learn: 0.2491768	total: 12.1s	remaining: 1m 56s
47:	learn: 0.2488901	total: 12.4s	remaining: 1m 57s
48:	learn: 0.2484427	total: 12.7s	remaining: 1m 56s
49:	learn: 0.2481094	total: 13s	remaining: 1m 56s
50:	learn: 0.2477986	total: 13.3s	remaining: 1m 56s
51:	learn: 0.2472801	total: 13.5s	remaining: 1m 56s
52:	learn: 0.2469279	total: 13.8s	remaining: 1m 56s
53:	learn: 0.2466432	total: 14.1s	remaining: 1m 56s
54:	learn: 0.2463037	total: 14.3s	remaining: 1m 55s
55:	learn: 0.2449184	total: 14.5s	remaining: 1m 55s
56:	learn: 0.2436998	total: 14.8s	remaining: 1m 54s
57:	learn: 0.2435187	total: 15.1s	remaining: 1m 54s
58:	learn: 0.2432949	total: 15.3s	remaining: 1m 54s
59:	learn: 0.2429620	total: 15.6s	remaining: 1m 54s
60:	learn: 0.2409321	total: 15.9s	remaining: 1m 54s
61:	learn: 0.2405332	total: 16.1s	remaining: 1m 53s
62:	learn: 0.2403481	total: 16.4s	remaining: 1m 53s
63:	learn: 0.2401742	total: 16.6s	remaining: 1m 53s

64:	learn: 0.2399060	total: 16.9s	remaining: 1m 52s
65:	learn: 0.2398326	total: 17.1s	remaining: 1m 52s
66:	learn: 0.2396579	total: 17.4s	remaining: 1m 52s
67:	learn: 0.2395441	total: 17.6s	remaining: 1m 52s
68:	learn: 0.2384881	total: 17.9s	remaining: 1m 51s
69:	learn: 0.2381289	total: 18.1s	remaining: 1m 51s
70:	learn: 0.2380798	total: 18.4s	remaining: 1m 51s
71:	learn: 0.2373913	total: 18.7s	remaining: 1m 50s
72:	learn: 0.2373102	total: 19s	remaining: 1m 50s
73:	learn: 0.2369998	total: 19.2s	remaining: 1m 50s
74:	learn: 0.2368376	total: 19.5s	remaining: 1m 50s
75:	learn: 0.2366688	total: 19.8s	remaining: 1m 50s
76:	learn: 0.2360707	total: 20.1s	remaining: 1m 50s
77:	learn: 0.2359793	total: 20.3s	remaining: 1m 49s
78:	learn: 0.2357502	total: 20.6s	remaining: 1m 49s
79:	learn: 0.2355350	total: 20.9s	remaining: 1m 49s
80:	learn: 0.2354446	total: 21.2s	remaining: 1m 49s
81:	learn: 0.2353723	total: 21.5s	remaining: 1m 49s
82:	learn: 0.2349385	total: 21.8s	remaining: 1m 49s
83:	learn: 0.2348922	total: 22.1s	remaining: 1m 49s
84:	learn: 0.2347786	total: 22.4s	remaining: 1m 49s
85:	learn: 0.2347374	total: 22.6s	remaining: 1m 48s
86:	learn: 0.2343868	total: 22.9s	remaining: 1m 48s
87:	learn: 0.2341737	total: 23.2s	remaining: 1m 48s
88:	learn: 0.2340239	total: 23.5s	remaining: 1m 48s
89:	learn: 0.2338984	total: 23.8s	remaining: 1m 48s
90:	learn: 0.2338398	total: 24s	remaining: 1m 47s
91:	learn: 0.2334085	total: 24.3s	remaining: 1m 47s
92:	learn: 0.2332684	total: 24.6s	remaining: 1m 47s
93:	learn: 0.2330718	total: 24.9s	remaining: 1m 47s
94:	learn: 0.2329378	total: 25.1s	remaining: 1m 47s
95:	learn: 0.2327981	total: 25.5s	remaining: 1m 47s
96:	learn: 0.2327049	total: 25.7s	remaining: 1m 46s
97:	learn: 0.2326649	total: 26s	remaining: 1m 46s
98:	learn: 0.2324560	total: 26.3s	remaining: 1m 46s
99:	learn: 0.2323836	total: 26.6s	remaining: 1m 46s
100:	learn: 0.2320211	total: 26.8s	remaining: 1m 45s
101:	learn: 0.2319405	total: 27.1s	remaining: 1m 45s
102:	learn: 0.2317923	total: 27.3s	remaining: 1m 45s
103:	learn: 0.2316393	total: 27.6s	remaining: 1m 45s
104:	learn: 0.2314823	total: 27.9s	remaining: 1m 44s
105:	learn: 0.2313664	total: 28.2s	remaining: 1m 44s
106:	learn: 0.2311650	total: 28.4s	remaining: 1m 44s
107:	learn: 0.2308922	total: 28.7s	remaining: 1m 44s
108:	learn: 0.2305703	total: 28.9s	remaining: 1m 43s
109:	learn: 0.2305303	total: 29.2s	remaining: 1m 43s
110:	learn: 0.2304773	total: 29.5s	remaining: 1m 43s
111:	learn: 0.2303747	total: 29.7s	remaining: 1m 42s

112:	learn: 0.2300863	total: 30s	remaining: 1m 42s
113:	learn: 0.2300209	total: 30.2s	remaining: 1m 42s
114:	learn: 0.2299682	total: 30.4s	remaining: 1m 41s
115:	learn: 0.2298917	total: 30.7s	remaining: 1m 41s
116:	learn: 0.2298781	total: 30.9s	remaining: 1m 41s
117:	learn: 0.2297803	total: 31.2s	remaining: 1m 40s
118:	learn: 0.2296896	total: 31.4s	remaining: 1m 40s
119:	learn: 0.2295593	total: 31.7s	remaining: 1m 40s
120:	learn: 0.2294953	total: 32s	remaining: 1m 40s
121:	learn: 0.2294290	total: 32.2s	remaining: 1m 39s
122:	learn: 0.2293342	total: 32.4s	remaining: 1m 39s
123:	learn: 0.2292329	total: 32.7s	remaining: 1m 39s
124:	learn: 0.2292153	total: 32.9s	remaining: 1m 38s
125:	learn: 0.2290696	total: 33.2s	remaining: 1m 38s
126:	learn: 0.2289471	total: 33.4s	remaining: 1m 38s
127:	learn: 0.2288239	total: 33.7s	remaining: 1m 37s
128:	learn: 0.2285548	total: 33.9s	remaining: 1m 37s
129:	learn: 0.2285042	total: 34.2s	remaining: 1m 37s
130:	learn: 0.2280987	total: 34.4s	remaining: 1m 36s
131:	learn: 0.2280506	total: 34.7s	remaining: 1m 36s
132:	learn: 0.2279374	total: 35s	remaining: 1m 36s
133:	learn: 0.2279117	total: 35.2s	remaining: 1m 36s
134:	learn: 0.2277718	total: 35.5s	remaining: 1m 36s
135:	learn: 0.2277473	total: 35.8s	remaining: 1m 35s
136:	learn: 0.2276835	total: 36.1s	remaining: 1m 35s
137:	learn: 0.2276764	total: 36.3s	remaining: 1m 35s
138:	learn: 0.2275857	total: 36.6s	remaining: 1m 35s
139:	learn: 0.2275011	total: 36.9s	remaining: 1m 34s
140:	learn: 0.2274789	total: 37.2s	remaining: 1m 34s
141:	learn: 0.2273232	total: 37.5s	remaining: 1m 34s
142:	learn: 0.2271722	total: 37.8s	remaining: 1m 34s
143:	learn: 0.2269308	total: 38s	remaining: 1m 34s
144:	learn: 0.2267094	total: 38.3s	remaining: 1m 33s
145:	learn: 0.2263636	total: 38.6s	remaining: 1m 33s
146:	learn: 0.2262632	total: 38.8s	remaining: 1m 33s
147:	learn: 0.2262054	total: 39.1s	remaining: 1m 32s
148:	learn: 0.2261030	total: 39.4s	remaining: 1m 32s
149:	learn: 0.2260232	total: 39.6s	remaining: 1m 32s
150:	learn: 0.2259403	total: 39.9s	remaining: 1m 32s
151:	learn: 0.2259088	total: 40.2s	remaining: 1m 32s
152:	learn: 0.2257183	total: 40.4s	remaining: 1m 31s
153:	learn: 0.2256235	total: 40.7s	remaining: 1m 31s
154:	learn: 0.2255758	total: 41s	remaining: 1m 31s
155:	learn: 0.2254644	total: 41.3s	remaining: 1m 31s
156:	learn: 0.2254363	total: 41.6s	remaining: 1m 30s
157:	learn: 0.2253500	total: 41.9s	remaining: 1m 30s
158:	learn: 0.2251941	total: 42.1s	remaining: 1m 30s
159:	learn: 0.2251317	total: 42.4s	remaining: 1m 30s

160:	learn: 0.2250708	total: 42.7s	remaining: 1m 29s
161:	learn: 0.2248727	total: 43s	remaining: 1m 29s
162:	learn: 0.2247784	total: 43.3s	remaining: 1m 29s
163:	learn: 0.2247253	total: 43.5s	remaining: 1m 29s
164:	learn: 0.2246227	total: 43.8s	remaining: 1m 28s
165:	learn: 0.2244270	total: 44.1s	remaining: 1m 28s
166:	learn: 0.2243706	total: 44.3s	remaining: 1m 28s
167:	learn: 0.2242618	total: 44.6s	remaining: 1m 28s
168:	learn: 0.2242200	total: 44.9s	remaining: 1m 27s
169:	learn: 0.2241133	total: 45.1s	remaining: 1m 27s
170:	learn: 0.2239773	total: 45.4s	remaining: 1m 27s
171:	learn: 0.2238980	total: 45.7s	remaining: 1m 27s
172:	learn: 0.2238606	total: 45.9s	remaining: 1m 26s
173:	learn: 0.2238230	total: 46.2s	remaining: 1m 26s
174:	learn: 0.2237758	total: 46.4s	remaining: 1m 26s
175:	learn: 0.2236986	total: 46.7s	remaining: 1m 25s
176:	learn: 0.2236086	total: 47s	remaining: 1m 25s
177:	learn: 0.2235732	total: 47.2s	remaining: 1m 25s
178:	learn: 0.2235028	total: 47.4s	remaining: 1m 25s
179:	learn: 0.2234789	total: 47.7s	remaining: 1m 24s
180:	learn: 0.2233875	total: 47.9s	remaining: 1m 24s
181:	learn: 0.2233028	total: 48.1s	remaining: 1m 24s
182:	learn: 0.2232617	total: 48.3s	remaining: 1m 23s
183:	learn: 0.2231971	total: 48.6s	remaining: 1m 23s
184:	learn: 0.2229492	total: 48.9s	remaining: 1m 23s
185:	learn: 0.2228796	total: 49.1s	remaining: 1m 22s
186:	learn: 0.2228234	total: 49.3s	remaining: 1m 22s
187:	learn: 0.2227965	total: 49.6s	remaining: 1m 22s
188:	learn: 0.2227469	total: 49.8s	remaining: 1m 21s
189:	learn: 0.2226888	total: 50s	remaining: 1m 21s
190:	learn: 0.2225873	total: 50.2s	remaining: 1m 21s
191:	learn: 0.2225390	total: 50.4s	remaining: 1m 20s
192:	learn: 0.2225102	total: 50.5s	remaining: 1m 20s
193:	learn: 0.2224330	total: 50.7s	remaining: 1m 20s
194:	learn: 0.2222208	total: 51s	remaining: 1m 19s
195:	learn: 0.2221565	total: 51.2s	remaining: 1m 19s
196:	learn: 0.2221147	total: 51.4s	remaining: 1m 19s
197:	learn: 0.2220273	total: 51.6s	remaining: 1m 18s
198:	learn: 0.2219773	total: 51.8s	remaining: 1m 18s
199:	learn: 0.2219292	total: 52s	remaining: 1m 18s
200:	learn: 0.2218903	total: 52.2s	remaining: 1m 17s
201:	learn: 0.2218149	total: 52.5s	remaining: 1m 17s
202:	learn: 0.2217551	total: 52.8s	remaining: 1m 17s
203:	learn: 0.2216773	total: 53s	remaining: 1m 16s
204:	learn: 0.2215316	total: 53.3s	remaining: 1m 16s
205:	learn: 0.2214539	total: 53.6s	remaining: 1m 16s
206:	learn: 0.2213792	total: 53.9s	remaining: 1m 16s
207:	learn: 0.2212992	total: 54.1s	remaining: 1m 15s

208:	learn: 0.2212585	total: 54.4s	remaining: 1m 15s
209:	learn: 0.2212287	total: 54.6s	remaining: 1m 15s
210:	learn: 0.2211738	total: 54.9s	remaining: 1m 15s
211:	learn: 0.2211274	total: 55.1s	remaining: 1m 14s
212:	learn: 0.2210496	total: 55.4s	remaining: 1m 14s
213:	learn: 0.2210101	total: 55.7s	remaining: 1m 14s
214:	learn: 0.2209300	total: 56s	remaining: 1m 14s
215:	learn: 0.2208760	total: 56.2s	remaining: 1m 13s
216:	learn: 0.2208558	total: 56.5s	remaining: 1m 13s
217:	learn: 0.2207957	total: 56.8s	remaining: 1m 13s
218:	learn: 0.2206903	total: 57.1s	remaining: 1m 13s
219:	learn: 0.2206581	total: 57.3s	remaining: 1m 12s
220:	learn: 0.2206475	total: 57.6s	remaining: 1m 12s
221:	learn: 0.2205640	total: 57.9s	remaining: 1m 12s
222:	learn: 0.2204685	total: 58.1s	remaining: 1m 12s
223:	learn: 0.2204148	total: 58.4s	remaining: 1m 11s
224:	learn: 0.2203410	total: 58.7s	remaining: 1m 11s
225:	learn: 0.2202749	total: 59s	remaining: 1m 11s
226:	learn: 0.2202206	total: 59.3s	remaining: 1m 11s
227:	learn: 0.2201697	total: 59.5s	remaining: 1m 11s
228:	learn: 0.2200658	total: 59.8s	remaining: 1m 10s
229:	learn: 0.2200016	total: 1m	remaining: 1m 10s
230:	learn: 0.2199392	total: 1m	remaining: 1m 10s
231:	learn: 0.2198759	total: 1m	remaining: 1m 10s
232:	learn: 0.2197577	total: 1m	remaining: 1m 9s
233:	learn: 0.2197256	total: 1m 1s	remaining: 1m 9s
234:	learn: 0.2196766	total: 1m 1s	remaining: 1m 9s
235:	learn: 0.2195238	total: 1m 1s	remaining: 1m 8s
236:	learn: 0.2194677	total: 1m 1s	remaining: 1m 8s
237:	learn: 0.2193898	total: 1m 2s	remaining: 1m 8s
238:	learn: 0.2193335	total: 1m 2s	remaining: 1m 8s
239:	learn: 0.2191530	total: 1m 2s	remaining: 1m 7s
240:	learn: 0.2190803	total: 1m 2s	remaining: 1m 7s
241:	learn: 0.2190381	total: 1m 3s	remaining: 1m 7s
242:	learn: 0.2190081	total: 1m 3s	remaining: 1m 7s
243:	learn: 0.2188465	total: 1m 3s	remaining: 1m 6s
244:	learn: 0.2188247	total: 1m 3s	remaining: 1m 6s
245:	learn: 0.2186946	total: 1m 4s	remaining: 1m 6s
246:	learn: 0.2186771	total: 1m 4s	remaining: 1m 5s
247:	learn: 0.2185944	total: 1m 4s	remaining: 1m 5s
248:	learn: 0.2185714	total: 1m 4s	remaining: 1m 5s
249:	learn: 0.2185487	total: 1m 5s	remaining: 1m 5s
250:	learn: 0.2184776	total: 1m 5s	remaining: 1m 4s
251:	learn: 0.2184393	total: 1m 5s	remaining: 1m 4s
252:	learn: 0.2182765	total: 1m 5s	remaining: 1m 4s
253:	learn: 0.2182586	total: 1m 5s	remaining: 1m 3s
254:	learn: 0.2181664	total: 1m 6s	remaining: 1m 3s
255:	learn: 0.2181218	total: 1m 6s	remaining: 1m 3s

256:	learn: 0.2179600	total: 1m 6s	remaining: 1m 3s
257:	learn: 0.2179337	total: 1m 7s	remaining: 1m 2s
258:	learn: 0.2178678	total: 1m 7s	remaining: 1m 2s
259:	learn: 0.2177767	total: 1m 7s	remaining: 1m 2s
260:	learn: 0.2176066	total: 1m 7s	remaining: 1m 2s
261:	learn: 0.2175304	total: 1m 8s	remaining: 1m 1s
262:	learn: 0.2175067	total: 1m 8s	remaining: 1m 1s
263:	learn: 0.2174249	total: 1m 8s	remaining: 1m 1s
264:	learn: 0.2173581	total: 1m 8s	remaining: 1m 1s
265:	learn: 0.2173351	total: 1m 9s	remaining: 1m
266:	learn: 0.2172948	total: 1m 9s	remaining: 1m
267:	learn: 0.2172408	total: 1m 9s	remaining: 1m
268:	learn: 0.2171183	total: 1m 10s	remaining: 1m
269:	learn: 0.2169344	total: 1m 10s	remaining: 59.9s
270:	learn: 0.2168867	total: 1m 10s	remaining: 59.6s
271:	learn: 0.2168189	total: 1m 10s	remaining: 59.4s
272:	learn: 0.2167487	total: 1m 11s	remaining: 59.2s
273:	learn: 0.2166812	total: 1m 11s	remaining: 58.9s
274:	learn: 0.2166511	total: 1m 11s	remaining: 58.6s
275:	learn: 0.2165764	total: 1m 11s	remaining: 58.4s
276:	learn: 0.2165433	total: 1m 12s	remaining: 58.1s
277:	learn: 0.2164882	total: 1m 12s	remaining: 57.9s
278:	learn: 0.2164384	total: 1m 12s	remaining: 57.6s
279:	learn: 0.2164007	total: 1m 13s	remaining: 57.4s
280:	learn: 0.2163365	total: 1m 13s	remaining: 57.1s
281:	learn: 0.2162796	total: 1m 13s	remaining: 56.8s
282:	learn: 0.2162245	total: 1m 13s	remaining: 56.6s
283:	learn: 0.2161651	total: 1m 14s	remaining: 56.3s
284:	learn: 0.2161219	total: 1m 14s	remaining: 56.1s
285:	learn: 0.2160928	total: 1m 14s	remaining: 55.8s
286:	learn: 0.2160078	total: 1m 14s	remaining: 55.5s
287:	learn: 0.2159595	total: 1m 15s	remaining: 55.3s
288:	learn: 0.2158808	total: 1m 15s	remaining: 55s
289:	learn: 0.2158555	total: 1m 15s	remaining: 54.7s
290:	learn: 0.2158455	total: 1m 15s	remaining: 54.5s
291:	learn: 0.2157731	total: 1m 16s	remaining: 54.2s
292:	learn: 0.2157254	total: 1m 16s	remaining: 54s
293:	learn: 0.2156198	total: 1m 16s	remaining: 53.7s
294:	learn: 0.2155420	total: 1m 16s	remaining: 53.5s
295:	learn: 0.2155092	total: 1m 17s	remaining: 53.2s
296:	learn: 0.2154556	total: 1m 17s	remaining: 52.9s
297:	learn: 0.2153572	total: 1m 17s	remaining: 52.7s
298:	learn: 0.2153295	total: 1m 17s	remaining: 52.4s
299:	learn: 0.2152050	total: 1m 18s	remaining: 52.1s
300:	learn: 0.2151778	total: 1m 18s	remaining: 51.9s
301:	learn: 0.2151002	total: 1m 18s	remaining: 51.6s
302:	learn: 0.2149754	total: 1m 18s	remaining: 51.3s
303:	learn: 0.2149570	total: 1m 19s	remaining: 51s

304:	learn: 0.2149078	total: 1m 19s	remaining: 50.7s
305:	learn: 0.2147974	total: 1m 19s	remaining: 50.5s
306:	learn: 0.2147535	total: 1m 19s	remaining: 50.2s
307:	learn: 0.2147136	total: 1m 20s	remaining: 49.9s
308:	learn: 0.2143478	total: 1m 20s	remaining: 49.7s
309:	learn: 0.2143024	total: 1m 20s	remaining: 49.4s
310:	learn: 0.2142602	total: 1m 20s	remaining: 49.1s
311:	learn: 0.2142180	total: 1m 21s	remaining: 48.8s
312:	learn: 0.2141702	total: 1m 21s	remaining: 48.6s
313:	learn: 0.2141613	total: 1m 21s	remaining: 48.3s
314:	learn: 0.2140403	total: 1m 21s	remaining: 48s
315:	learn: 0.2139907	total: 1m 21s	remaining: 47.7s
316:	learn: 0.2139100	total: 1m 22s	remaining: 47.5s
317:	learn: 0.2138885	total: 1m 22s	remaining: 47.2s
318:	learn: 0.2138558	total: 1m 22s	remaining: 46.9s
319:	learn: 0.2138129	total: 1m 22s	remaining: 46.7s
320:	learn: 0.2138071	total: 1m 23s	remaining: 46.4s
321:	learn: 0.2136680	total: 1m 23s	remaining: 46.2s
322:	learn: 0.2136232	total: 1m 23s	remaining: 45.9s
323:	learn: 0.2135797	total: 1m 24s	remaining: 45.7s
324:	learn: 0.2134749	total: 1m 24s	remaining: 45.4s
325:	learn: 0.2134630	total: 1m 24s	remaining: 45.1s
326:	learn: 0.2133993	total: 1m 24s	remaining: 44.9s
327:	learn: 0.2133627	total: 1m 25s	remaining: 44.6s
328:	learn: 0.2132825	total: 1m 25s	remaining: 44.4s
329:	learn: 0.2132287	total: 1m 25s	remaining: 44.1s
330:	learn: 0.2131793	total: 1m 25s	remaining: 43.9s
331:	learn: 0.2130869	total: 1m 26s	remaining: 43.6s
332:	learn: 0.2130217	total: 1m 26s	remaining: 43.3s
333:	learn: 0.2129937	total: 1m 26s	remaining: 43.1s
334:	learn: 0.2129647	total: 1m 27s	remaining: 42.9s
335:	learn: 0.2128763	total: 1m 27s	remaining: 42.6s
336:	learn: 0.2128041	total: 1m 27s	remaining: 42.3s
337:	learn: 0.2127698	total: 1m 27s	remaining: 42.1s
338:	learn: 0.2126857	total: 1m 28s	remaining: 41.9s
339:	learn: 0.2126288	total: 1m 28s	remaining: 41.6s
340:	learn: 0.2125856	total: 1m 28s	remaining: 41.4s
341:	learn: 0.2125364	total: 1m 29s	remaining: 41.1s
342:	learn: 0.2124633	total: 1m 29s	remaining: 40.9s
343:	learn: 0.2123573	total: 1m 29s	remaining: 40.6s
344:	learn: 0.2123007	total: 1m 29s	remaining: 40.3s
345:	learn: 0.2122174	total: 1m 30s	remaining: 40.1s
346:	learn: 0.2121826	total: 1m 30s	remaining: 39.8s
347:	learn: 0.2121426	total: 1m 30s	remaining: 39.5s
348:	learn: 0.2121235	total: 1m 30s	remaining: 39.3s
349:	learn: 0.2118634	total: 1m 31s	remaining: 39s
350:	learn: 0.2117876	total: 1m 31s	remaining: 38.8s
351:	learn: 0.2117637	total: 1m 31s	remaining: 38.5s

352:	learn: 0.2117299	total: 1m 31s	remaining: 38.3s
353:	learn: 0.2116808	total: 1m 32s	remaining: 38s
354:	learn: 0.2116268	total: 1m 32s	remaining: 37.8s
355:	learn: 0.2115980	total: 1m 32s	remaining: 37.5s
356:	learn: 0.2115225	total: 1m 33s	remaining: 37.3s
357:	learn: 0.2114816	total: 1m 33s	remaining: 37s
358:	learn: 0.2114512	total: 1m 33s	remaining: 36.7s
359:	learn: 0.2113444	total: 1m 33s	remaining: 36.5s
360:	learn: 0.2112940	total: 1m 34s	remaining: 36.2s
361:	learn: 0.2112320	total: 1m 34s	remaining: 35.9s
362:	learn: 0.2111558	total: 1m 34s	remaining: 35.7s
363:	learn: 0.2110294	total: 1m 34s	remaining: 35.4s
364:	learn: 0.2109541	total: 1m 35s	remaining: 35.1s
365:	learn: 0.2109072	total: 1m 35s	remaining: 34.9s
366:	learn: 0.2108476	total: 1m 35s	remaining: 34.6s
367:	learn: 0.2108055	total: 1m 35s	remaining: 34.3s
368:	learn: 0.2107297	total: 1m 36s	remaining: 34.1s
369:	learn: 0.2106568	total: 1m 36s	remaining: 33.8s
370:	learn: 0.2106334	total: 1m 36s	remaining: 33.6s
371:	learn: 0.2105791	total: 1m 36s	remaining: 33.3s
372:	learn: 0.2105343	total: 1m 37s	remaining: 33s
373:	learn: 0.2104669	total: 1m 37s	remaining: 32.8s
374:	learn: 0.2103687	total: 1m 37s	remaining: 32.5s
375:	learn: 0.2102714	total: 1m 37s	remaining: 32.2s
376:	learn: 0.2102191	total: 1m 38s	remaining: 32s
377:	learn: 0.2101841	total: 1m 38s	remaining: 31.7s
378:	learn: 0.2101016	total: 1m 38s	remaining: 31.4s
379:	learn: 0.2100832	total: 1m 38s	remaining: 31.2s
380:	learn: 0.2100584	total: 1m 39s	remaining: 30.9s
381:	learn: 0.2100225	total: 1m 39s	remaining: 30.7s
382:	learn: 0.2099682	total: 1m 39s	remaining: 30.4s
383:	learn: 0.2099536	total: 1m 39s	remaining: 30.1s
384:	learn: 0.2098644	total: 1m 40s	remaining: 29.9s
385:	learn: 0.2097659	total: 1m 40s	remaining: 29.6s
386:	learn: 0.2096920	total: 1m 40s	remaining: 29.4s
387:	learn: 0.2096447	total: 1m 40s	remaining: 29.1s
388:	learn: 0.2095860	total: 1m 41s	remaining: 28.8s
389:	learn: 0.2095304	total: 1m 41s	remaining: 28.6s
390:	learn: 0.2094080	total: 1m 41s	remaining: 28.3s
391:	learn: 0.2093803	total: 1m 41s	remaining: 28.1s
392:	learn: 0.2093652	total: 1m 42s	remaining: 27.8s
393:	learn: 0.2093130	total: 1m 42s	remaining: 27.5s
394:	learn: 0.2092436	total: 1m 42s	remaining: 27.3s
395:	learn: 0.2092000	total: 1m 42s	remaining: 27s
396:	learn: 0.2091796	total: 1m 43s	remaining: 26.8s
397:	learn: 0.2091476	total: 1m 43s	remaining: 26.5s
398:	learn: 0.2091130	total: 1m 43s	remaining: 26.2s
399:	learn: 0.2090541	total: 1m 43s	remaining: 26s

400:	learn: 0.2090472	total: 1m 44s	remaining: 25.7s
401:	learn: 0.2089911	total: 1m 44s	remaining: 25.4s
402:	learn: 0.2089393	total: 1m 44s	remaining: 25.2s
403:	learn: 0.2089104	total: 1m 44s	remaining: 24.9s
404:	learn: 0.2088470	total: 1m 45s	remaining: 24.7s
405:	learn: 0.2088023	total: 1m 45s	remaining: 24.4s
406:	learn: 0.2087667	total: 1m 45s	remaining: 24.1s
407:	learn: 0.2087065	total: 1m 45s	remaining: 23.9s
408:	learn: 0.2086827	total: 1m 46s	remaining: 23.6s
409:	learn: 0.2086369	total: 1m 46s	remaining: 23.4s
410:	learn: 0.2085459	total: 1m 46s	remaining: 23.1s
411:	learn: 0.2085164	total: 1m 47s	remaining: 22.9s
412:	learn: 0.2084527	total: 1m 47s	remaining: 22.6s
413:	learn: 0.2084366	total: 1m 47s	remaining: 22.4s
414:	learn: 0.2083987	total: 1m 47s	remaining: 22.1s
415:	learn: 0.2083289	total: 1m 48s	remaining: 21.8s
416:	learn: 0.2083040	total: 1m 48s	remaining: 21.6s
417:	learn: 0.2082613	total: 1m 48s	remaining: 21.3s
418:	learn: 0.2082378	total: 1m 48s	remaining: 21.1s
419:	learn: 0.2081823	total: 1m 49s	remaining: 20.8s
420:	learn: 0.2080813	total: 1m 49s	remaining: 20.5s
421:	learn: 0.2080500	total: 1m 49s	remaining: 20.3s
422:	learn: 0.2080177	total: 1m 49s	remaining: 20s
423:	learn: 0.2079402	total: 1m 50s	remaining: 19.8s
424:	learn: 0.2078829	total: 1m 50s	remaining: 19.5s
425:	learn: 0.2077737	total: 1m 50s	remaining: 19.2s
426:	learn: 0.2077389	total: 1m 51s	remaining: 19s
427:	learn: 0.2077295	total: 1m 51s	remaining: 18.7s
428:	learn: 0.2076160	total: 1m 51s	remaining: 18.5s
429:	learn: 0.2075911	total: 1m 51s	remaining: 18.2s
430:	learn: 0.2075580	total: 1m 51s	remaining: 17.9s
431:	learn: 0.2075013	total: 1m 52s	remaining: 17.7s
432:	learn: 0.2074393	total: 1m 52s	remaining: 17.4s
433:	learn: 0.2073591	total: 1m 52s	remaining: 17.1s
434:	learn: 0.2072789	total: 1m 52s	remaining: 16.9s
435:	learn: 0.2072001	total: 1m 53s	remaining: 16.6s
436:	learn: 0.2071624	total: 1m 53s	remaining: 16.4s
437:	learn: 0.2070359	total: 1m 53s	remaining: 16.1s
438:	learn: 0.2070186	total: 1m 53s	remaining: 15.8s
439:	learn: 0.2069872	total: 1m 54s	remaining: 15.6s
440:	learn: 0.2069102	total: 1m 54s	remaining: 15.3s
441:	learn: 0.2068536	total: 1m 54s	remaining: 15.1s
442:	learn: 0.2067539	total: 1m 55s	remaining: 14.8s
443:	learn: 0.2066153	total: 1m 55s	remaining: 14.5s
444:	learn: 0.2066057	total: 1m 55s	remaining: 14.3s
445:	learn: 0.2065896	total: 1m 55s	remaining: 14s
446:	learn: 0.2065641	total: 1m 56s	remaining: 13.8s
447:	learn: 0.2064998	total: 1m 56s	remaining: 13.5s

448:	learn: 0.2064387	total: 1m 56s	remaining: 13.3s
449:	learn: 0.2064162	total: 1m 56s	remaining: 13s
450:	learn: 0.2063524	total: 1m 57s	remaining: 12.7s
451:	learn: 0.2063007	total: 1m 57s	remaining: 12.5s
452:	learn: 0.2062480	total: 1m 57s	remaining: 12.2s
453:	learn: 0.2061379	total: 1m 57s	remaining: 12s
454:	learn: 0.2060920	total: 1m 58s	remaining: 11.7s
455:	learn: 0.2060145	total: 1m 58s	remaining: 11.4s
456:	learn: 0.2059778	total: 1m 58s	remaining: 11.2s
457:	learn: 0.2059151	total: 1m 59s	remaining: 10.9s
458:	learn: 0.2058892	total: 1m 59s	remaining: 10.7s
459:	learn: 0.2058559	total: 1m 59s	remaining: 10.4s
460:	learn: 0.2058104	total: 1m 59s	remaining: 10.1s
461:	learn: 0.2057676	total: 2m	remaining: 9.89s
462:	learn: 0.2056990	total: 2m	remaining: 9.63s
463:	learn: 0.2056372	total: 2m	remaining: 9.37s
464:	learn: 0.2055562	total: 2m 1s	remaining: 9.11s
465:	learn: 0.2055017	total: 2m 1s	remaining: 8.85s
466:	learn: 0.2054611	total: 2m 1s	remaining: 8.59s
467:	learn: 0.2054265	total: 2m 1s	remaining: 8.33s
468:	learn: 0.2053647	total: 2m 2s	remaining: 8.07s
469:	learn: 0.2053383	total: 2m 2s	remaining: 7.81s
470:	learn: 0.2052716	total: 2m 2s	remaining: 7.55s
471:	learn: 0.2052274	total: 2m 2s	remaining: 7.29s
472:	learn: 0.2051346	total: 2m 3s	remaining: 7.03s
473:	learn: 0.2050823	total: 2m 3s	remaining: 6.77s
474:	learn: 0.2049466	total: 2m 3s	remaining: 6.51s
475:	learn: 0.2048770	total: 2m 4s	remaining: 6.25s
476:	learn: 0.2048336	total: 2m 4s	remaining: 5.99s
477:	learn: 0.2047404	total: 2m 4s	remaining: 5.73s
478:	learn: 0.2046461	total: 2m 4s	remaining: 5.47s
479:	learn: 0.2046158	total: 2m 5s	remaining: 5.21s
480:	learn: 0.2045734	total: 2m 5s	remaining: 4.95s
481:	learn: 0.2045130	total: 2m 5s	remaining: 4.69s
482:	learn: 0.2044654	total: 2m 5s	remaining: 4.43s
483:	learn: 0.2044108	total: 2m 6s	remaining: 4.17s
484:	learn: 0.2043695	total: 2m 6s	remaining: 3.9s
485:	learn: 0.2043366	total: 2m 6s	remaining: 3.64s
486:	learn: 0.2042516	total: 2m 6s	remaining: 3.38s
487:	learn: 0.2042172	total: 2m 7s	remaining: 3.12s
488:	learn: 0.2041505	total: 2m 7s	remaining: 2.86s
489:	learn: 0.2041205	total: 2m 7s	remaining: 2.6s
490:	learn: 0.2040743	total: 2m 7s	remaining: 2.34s
491:	learn: 0.2039728	total: 2m 8s	remaining: 2.08s
492:	learn: 0.2039260	total: 2m 8s	remaining: 1.82s
493:	learn: 0.2038637	total: 2m 8s	remaining: 1.56s
494:	learn: 0.2038272	total: 2m 8s	remaining: 1.3s
495:	learn: 0.2037813	total: 2m 9s	remaining: 1.04s

496:	learn: 0.2037650	total: 2m 9s	remaining: 781ms
497:	learn: 0.2037254	total: 2m 9s	remaining: 520ms
498:	learn: 0.2036991	total: 2m 9s	remaining: 260ms
499:	learn: 0.2036822	total: 2m 10s	remaining: 0us
Learning rate set to 0.174288			
0:	learn: 0.9714160	total: 295ms	remaining: 2m 27s
1:	learn: 0.8884781	total: 580ms	remaining: 2m 24s
2:	learn: 0.8295731	total: 823ms	remaining: 2m 16s
3:	learn: 0.7384586	total: 1.12s	remaining: 2m 19s
4:	learn: 0.6655190	total: 1.42s	remaining: 2m 20s
5:	learn: 0.6399593	total: 1.69s	remaining: 2m 18s
6:	learn: 0.6185471	total: 1.96s	remaining: 2m 18s
7:	learn: 0.5549316	total: 2.27s	remaining: 2m 19s
8:	learn: 0.5065485	total: 2.54s	remaining: 2m 18s
9:	learn: 0.4675536	total: 2.82s	remaining: 2m 18s
10:	learn: 0.4598879	total: 3.08s	remaining: 2m 16s
11:	learn: 0.4322648	total: 3.38s	remaining: 2m 17s
12:	learn: 0.4079065	total: 3.69s	remaining: 2m 18s
13:	learn: 0.3876222	total: 3.98s	remaining: 2m 18s
14:	learn: 0.3713255	total: 4.27s	remaining: 2m 18s
15:	learn: 0.3540575	total: 4.55s	remaining: 2m 17s
16:	learn: 0.3404556	total: 4.82s	remaining: 2m 16s
17:	learn: 0.3315706	total: 5.09s	remaining: 2m 16s
18:	learn: 0.3182144	total: 5.37s	remaining: 2m 16s
19:	learn: 0.3131228	total: 5.64s	remaining: 2m 15s
20:	learn: 0.3027596	total: 5.93s	remaining: 2m 15s
21:	learn: 0.2974109	total: 6.24s	remaining: 2m 15s
22:	learn: 0.2957655	total: 6.51s	remaining: 2m 15s
23:	learn: 0.2884805	total: 6.79s	remaining: 2m 14s
24:	learn: 0.2871295	total: 7.07s	remaining: 2m 14s
25:	learn: 0.2812937	total: 7.38s	remaining: 2m 14s
26:	learn: 0.2760433	total: 7.66s	remaining: 2m 14s
27:	learn: 0.2751447	total: 7.94s	remaining: 2m 13s
28:	learn: 0.2743507	total: 8.22s	remaining: 2m 13s
29:	learn: 0.2736952	total: 8.52s	remaining: 2m 13s
30:	learn: 0.2695535	total: 8.81s	remaining: 2m 13s
31:	learn: 0.2691394	total: 9.11s	remaining: 2m 13s
32:	learn: 0.2687001	total: 9.38s	remaining: 2m 12s
33:	learn: 0.2680796	total: 9.68s	remaining: 2m 12s
34:	learn: 0.2675077	total: 9.96s	remaining: 2m 12s
35:	learn: 0.2643615	total: 10.2s	remaining: 2m 12s
36:	learn: 0.2613950	total: 10.5s	remaining: 2m 11s
37:	learn: 0.2608356	total: 10.7s	remaining: 2m 10s
38:	learn: 0.2604766	total: 11s	remaining: 2m 9s
39:	learn: 0.2583703	total: 11.3s	remaining: 2m 9s
40:	learn: 0.2579814	total: 11.6s	remaining: 2m 9s
41:	learn: 0.2576370	total: 11.8s	remaining: 2m 9s
42:	learn: 0.2574845	total: 12.1s	remaining: 2m 8s

43:	learn: 0.2567535	total: 12.4s	remaining: 2m 8s
44:	learn: 0.2565105	total: 12.6s	remaining: 2m 7s
45:	learn: 0.2550493	total: 12.9s	remaining: 2m 7s
46:	learn: 0.2542526	total: 13.2s	remaining: 2m 6s
47:	learn: 0.2540157	total: 13.4s	remaining: 2m 6s
48:	learn: 0.2536472	total: 13.7s	remaining: 2m 5s
49:	learn: 0.2531318	total: 13.9s	remaining: 2m 5s
50:	learn: 0.2529483	total: 14.2s	remaining: 2m 5s
51:	learn: 0.2517574	total: 14.5s	remaining: 2m 4s
52:	learn: 0.2514577	total: 14.7s	remaining: 2m 4s
53:	learn: 0.2511380	total: 15s	remaining: 2m 3s
54:	learn: 0.2509813	total: 15.2s	remaining: 2m 2s
55:	learn: 0.2506613	total: 15.5s	remaining: 2m 2s
56:	learn: 0.2504461	total: 15.7s	remaining: 2m 2s
57:	learn: 0.2502078	total: 16s	remaining: 2m 2s
58:	learn: 0.2497216	total: 16.3s	remaining: 2m 2s
59:	learn: 0.2493017	total: 16.6s	remaining: 2m 1s
60:	learn: 0.2491927	total: 16.9s	remaining: 2m 1s
61:	learn: 0.2489709	total: 17.1s	remaining: 2m 1s
62:	learn: 0.2489256	total: 17.4s	remaining: 2m
63:	learn: 0.2485633	total: 17.7s	remaining: 2m
64:	learn: 0.2465040	total: 18s	remaining: 2m
65:	learn: 0.2462623	total: 18.3s	remaining: 2m
66:	learn: 0.2445372	total: 18.5s	remaining: 1m 59s
67:	learn: 0.2444074	total: 18.8s	remaining: 1m 59s
68:	learn: 0.2443096	total: 19.1s	remaining: 1m 59s
69:	learn: 0.2420539	total: 19.4s	remaining: 1m 59s
70:	learn: 0.2420098	total: 19.6s	remaining: 1m 58s
71:	learn: 0.2414880	total: 19.9s	remaining: 1m 58s
72:	learn: 0.2400681	total: 20.2s	remaining: 1m 58s
73:	learn: 0.2398986	total: 20.5s	remaining: 1m 57s
74:	learn: 0.2398518	total: 20.7s	remaining: 1m 57s
75:	learn: 0.2397443	total: 21s	remaining: 1m 57s
76:	learn: 0.2396282	total: 21.3s	remaining: 1m 56s
77:	learn: 0.2395882	total: 21.6s	remaining: 1m 56s
78:	learn: 0.2382827	total: 21.8s	remaining: 1m 56s
79:	learn: 0.2379621	total: 22.1s	remaining: 1m 56s
80:	learn: 0.2376907	total: 22.4s	remaining: 1m 56s
81:	learn: 0.2376465	total: 22.7s	remaining: 1m 55s
82:	learn: 0.2363311	total: 23s	remaining: 1m 55s
83:	learn: 0.2361726	total: 23.2s	remaining: 1m 55s
84:	learn: 0.2359334	total: 23.5s	remaining: 1m 54s
85:	learn: 0.2356882	total: 23.7s	remaining: 1m 54s
86:	learn: 0.2356173	total: 24s	remaining: 1m 53s
87:	learn: 0.2354800	total: 24.3s	remaining: 1m 53s
88:	learn: 0.2353935	total: 24.5s	remaining: 1m 53s
89:	learn: 0.2353465	total: 24.7s	remaining: 1m 52s
90:	learn: 0.2350845	total: 25s	remaining: 1m 52s

91:	learn: 0.2349800	total: 25.3s	remaining: 1m 52s
92:	learn: 0.2347523	total: 25.6s	remaining: 1m 51s
93:	learn: 0.2347098	total: 25.8s	remaining: 1m 51s
94:	learn: 0.2345471	total: 26.1s	remaining: 1m 51s
95:	learn: 0.2345144	total: 26.3s	remaining: 1m 50s
96:	learn: 0.2343235	total: 26.5s	remaining: 1m 50s
97:	learn: 0.2341420	total: 26.8s	remaining: 1m 49s
98:	learn: 0.2340158	total: 27s	remaining: 1m 49s
99:	learn: 0.2340017	total: 27.3s	remaining: 1m 49s
100:	learn: 0.2338930	total: 27.5s	remaining: 1m 48s
101:	learn: 0.2337877	total: 27.7s	remaining: 1m 48s
102:	learn: 0.2337547	total: 28s	remaining: 1m 47s
103:	learn: 0.2335649	total: 28.2s	remaining: 1m 47s
104:	learn: 0.2334847	total: 28.4s	remaining: 1m 46s
105:	learn: 0.2332316	total: 28.7s	remaining: 1m 46s
106:	learn: 0.2330790	total: 28.9s	remaining: 1m 46s
107:	learn: 0.2329881	total: 29.2s	remaining: 1m 45s
108:	learn: 0.2329056	total: 29.4s	remaining: 1m 45s
109:	learn: 0.2327724	total: 29.6s	remaining: 1m 45s
110:	learn: 0.2326757	total: 29.8s	remaining: 1m 44s
111:	learn: 0.2325549	total: 30s	remaining: 1m 44s
112:	learn: 0.2325058	total: 30.2s	remaining: 1m 43s
113:	learn: 0.2324272	total: 30.4s	remaining: 1m 42s
114:	learn: 0.2323949	total: 30.5s	remaining: 1m 42s
115:	learn: 0.2322423	total: 30.7s	remaining: 1m 41s
116:	learn: 0.2322197	total: 30.9s	remaining: 1m 41s
117:	learn: 0.2321942	total: 31.1s	remaining: 1m 40s
118:	learn: 0.2321564	total: 31.3s	remaining: 1m 40s
119:	learn: 0.2321035	total: 31.4s	remaining: 1m 39s
120:	learn: 0.2319644	total: 31.7s	remaining: 1m 39s
121:	learn: 0.2319388	total: 31.9s	remaining: 1m 38s
122:	learn: 0.2318074	total: 32.1s	remaining: 1m 38s
123:	learn: 0.2316460	total: 32.3s	remaining: 1m 37s
124:	learn: 0.2315697	total: 32.6s	remaining: 1m 37s
125:	learn: 0.2314746	total: 32.8s	remaining: 1m 37s
126:	learn: 0.2313492	total: 33.1s	remaining: 1m 37s
127:	learn: 0.2312869	total: 33.3s	remaining: 1m 36s
128:	learn: 0.2312096	total: 33.6s	remaining: 1m 36s
129:	learn: 0.2311167	total: 33.9s	remaining: 1m 36s
130:	learn: 0.2310968	total: 34.2s	remaining: 1m 36s
131:	learn: 0.2310456	total: 34.5s	remaining: 1m 36s
132:	learn: 0.2309671	total: 34.7s	remaining: 1m 35s
133:	learn: 0.2309028	total: 35s	remaining: 1m 35s
134:	learn: 0.2308225	total: 35.3s	remaining: 1m 35s
135:	learn: 0.2307529	total: 35.5s	remaining: 1m 35s
136:	learn: 0.2306867	total: 35.8s	remaining: 1m 34s
137:	learn: 0.2305995	total: 36s	remaining: 1m 34s
138:	learn: 0.2298370	total: 36.3s	remaining: 1m 34s

139:	learn: 0.2298112	total: 36.5s	remaining: 1m 33s
140:	learn: 0.2297745	total: 36.8s	remaining: 1m 33s
141:	learn: 0.2291994	total: 37s	remaining: 1m 33s
142:	learn: 0.2291421	total: 37.3s	remaining: 1m 33s
143:	learn: 0.2290091	total: 37.6s	remaining: 1m 32s
144:	learn: 0.2289608	total: 37.9s	remaining: 1m 32s
145:	learn: 0.2287070	total: 38.1s	remaining: 1m 32s
146:	learn: 0.2286476	total: 38.4s	remaining: 1m 32s
147:	learn: 0.2286078	total: 38.7s	remaining: 1m 32s
148:	learn: 0.2285452	total: 39s	remaining: 1m 31s
149:	learn: 0.2284951	total: 39.2s	remaining: 1m 31s
150:	learn: 0.2284712	total: 39.5s	remaining: 1m 31s
151:	learn: 0.2283853	total: 39.8s	remaining: 1m 31s
152:	learn: 0.2282986	total: 40.1s	remaining: 1m 30s
153:	learn: 0.2282134	total: 40.3s	remaining: 1m 30s
154:	learn: 0.2281463	total: 40.6s	remaining: 1m 30s
155:	learn: 0.2280326	total: 40.9s	remaining: 1m 30s
156:	learn: 0.2279293	total: 41.1s	remaining: 1m 29s
157:	learn: 0.2277627	total: 41.4s	remaining: 1m 29s
158:	learn: 0.2276350	total: 41.6s	remaining: 1m 29s
159:	learn: 0.2276119	total: 41.9s	remaining: 1m 29s
160:	learn: 0.2273959	total: 42.1s	remaining: 1m 28s
161:	learn: 0.2273223	total: 42.4s	remaining: 1m 28s
162:	learn: 0.2272776	total: 42.6s	remaining: 1m 28s
163:	learn: 0.2271786	total: 42.9s	remaining: 1m 27s
164:	learn: 0.2269127	total: 43.1s	remaining: 1m 27s
165:	learn: 0.2268716	total: 43.3s	remaining: 1m 27s
166:	learn: 0.2267963	total: 43.6s	remaining: 1m 26s
167:	learn: 0.2267394	total: 43.8s	remaining: 1m 26s
168:	learn: 0.2266701	total: 44.1s	remaining: 1m 26s
169:	learn: 0.2265471	total: 44.3s	remaining: 1m 25s
170:	learn: 0.2264499	total: 44.5s	remaining: 1m 25s
171:	learn: 0.2262760	total: 44.8s	remaining: 1m 25s
172:	learn: 0.2261927	total: 45s	remaining: 1m 25s
173:	learn: 0.2261350	total: 45.3s	remaining: 1m 24s
174:	learn: 0.2260840	total: 45.5s	remaining: 1m 24s
175:	learn: 0.2260070	total: 45.8s	remaining: 1m 24s
176:	learn: 0.2253864	total: 46s	remaining: 1m 23s
177:	learn: 0.2252549	total: 46.3s	remaining: 1m 23s
178:	learn: 0.2252142	total: 46.5s	remaining: 1m 23s
179:	learn: 0.2250365	total: 46.7s	remaining: 1m 23s
180:	learn: 0.2249793	total: 47s	remaining: 1m 22s
181:	learn: 0.2249459	total: 47.2s	remaining: 1m 22s
182:	learn: 0.2248979	total: 47.4s	remaining: 1m 22s
183:	learn: 0.2248496	total: 47.7s	remaining: 1m 21s
184:	learn: 0.2248021	total: 48s	remaining: 1m 21s
185:	learn: 0.2246958	total: 48.3s	remaining: 1m 21s
186:	learn: 0.2245880	total: 48.6s	remaining: 1m 21s

187:	learn: 0.2245624	total: 48.8s	remaining: 1m 21s
188:	learn: 0.2245327	total: 49.1s	remaining: 1m 20s
189:	learn: 0.2244785	total: 49.4s	remaining: 1m 20s
190:	learn: 0.2244407	total: 49.6s	remaining: 1m 20s
191:	learn: 0.2243709	total: 49.9s	remaining: 1m 19s
192:	learn: 0.2243437	total: 50.1s	remaining: 1m 19s
193:	learn: 0.2243157	total: 50.4s	remaining: 1m 19s
194:	learn: 0.2242392	total: 50.7s	remaining: 1m 19s
195:	learn: 0.2242085	total: 50.9s	remaining: 1m 18s
196:	learn: 0.2241879	total: 51.2s	remaining: 1m 18s
197:	learn: 0.2241642	total: 51.5s	remaining: 1m 18s
198:	learn: 0.2241385	total: 51.7s	remaining: 1m 18s
199:	learn: 0.2241200	total: 52s	remaining: 1m 17s
200:	learn: 0.2240601	total: 52.2s	remaining: 1m 17s
201:	learn: 0.2239290	total: 52.5s	remaining: 1m 17s
202:	learn: 0.2238229	total: 52.8s	remaining: 1m 17s
203:	learn: 0.2237394	total: 53.1s	remaining: 1m 16s
204:	learn: 0.2237149	total: 53.3s	remaining: 1m 16s
205:	learn: 0.2236949	total: 53.6s	remaining: 1m 16s
206:	learn: 0.2236466	total: 53.8s	remaining: 1m 16s
207:	learn: 0.2236069	total: 54.1s	remaining: 1m 15s
208:	learn: 0.2235674	total: 54.4s	remaining: 1m 15s
209:	learn: 0.2235121	total: 54.7s	remaining: 1m 15s
210:	learn: 0.2234090	total: 54.9s	remaining: 1m 15s
211:	learn: 0.2233120	total: 55.2s	remaining: 1m 15s
212:	learn: 0.2232844	total: 55.4s	remaining: 1m 14s
213:	learn: 0.2232627	total: 55.6s	remaining: 1m 14s
214:	learn: 0.2230315	total: 55.9s	remaining: 1m 14s
215:	learn: 0.2228820	total: 56.1s	remaining: 1m 13s
216:	learn: 0.2228101	total: 56.3s	remaining: 1m 13s
217:	learn: 0.2226848	total: 56.5s	remaining: 1m 13s
218:	learn: 0.2226349	total: 56.7s	remaining: 1m 12s
219:	learn: 0.2225523	total: 56.9s	remaining: 1m 12s
220:	learn: 0.2225129	total: 57.1s	remaining: 1m 12s
221:	learn: 0.2224749	total: 57.3s	remaining: 1m 11s
222:	learn: 0.2224592	total: 57.5s	remaining: 1m 11s
223:	learn: 0.2223455	total: 57.8s	remaining: 1m 11s
224:	learn: 0.2222827	total: 58s	remaining: 1m 10s
225:	learn: 0.2209491	total: 58.3s	remaining: 1m 10s
226:	learn: 0.2208965	total: 58.5s	remaining: 1m 10s
227:	learn: 0.2208172	total: 58.8s	remaining: 1m 10s
228:	learn: 0.2207294	total: 59.1s	remaining: 1m 9s
229:	learn: 0.2206411	total: 59.4s	remaining: 1m 9s
230:	learn: 0.2205661	total: 59.6s	remaining: 1m 9s
231:	learn: 0.2204138	total: 59.9s	remaining: 1m 9s
232:	learn: 0.2203805	total: 1m	remaining: 1m 8s
233:	learn: 0.2202824	total: 1m	remaining: 1m 8s
234:	learn: 0.2201753	total: 1m	remaining: 1m 8s

235:	learn: 0.2201104	total: 1m	remaining: 1m 8s
236:	learn: 0.2200892	total: 1m 1s	remaining: 1m 7s
237:	learn: 0.2200407	total: 1m 1s	remaining: 1m 7s
238:	learn: 0.2199652	total: 1m 1s	remaining: 1m 7s
239:	learn: 0.2198934	total: 1m 1s	remaining: 1m 6s
240:	learn: 0.2198321	total: 1m 2s	remaining: 1m 6s
241:	learn: 0.2198045	total: 1m 2s	remaining: 1m 6s
242:	learn: 0.2197350	total: 1m 2s	remaining: 1m 6s
243:	learn: 0.2196395	total: 1m 2s	remaining: 1m 5s
244:	learn: 0.2195896	total: 1m 3s	remaining: 1m 5s
245:	learn: 0.2194596	total: 1m 3s	remaining: 1m 5s
246:	learn: 0.2193695	total: 1m 3s	remaining: 1m 5s
247:	learn: 0.2193134	total: 1m 3s	remaining: 1m 4s
248:	learn: 0.2191792	total: 1m 4s	remaining: 1m 4s
249:	learn: 0.2191341	total: 1m 4s	remaining: 1m 4s
250:	learn: 0.2190942	total: 1m 4s	remaining: 1m 4s
251:	learn: 0.2190598	total: 1m 4s	remaining: 1m 3s
252:	learn: 0.2189867	total: 1m 5s	remaining: 1m 3s
253:	learn: 0.2189278	total: 1m 5s	remaining: 1m 3s
254:	learn: 0.2188910	total: 1m 5s	remaining: 1m 3s
255:	learn: 0.2188631	total: 1m 5s	remaining: 1m 2s
256:	learn: 0.2188211	total: 1m 6s	remaining: 1m 2s
257:	learn: 0.2187810	total: 1m 6s	remaining: 1m 2s
258:	learn: 0.2187251	total: 1m 6s	remaining: 1m 2s
259:	learn: 0.2186318	total: 1m 7s	remaining: 1m 1s
260:	learn: 0.2185718	total: 1m 7s	remaining: 1m 1s
261:	learn: 0.2184834	total: 1m 7s	remaining: 1m 1s
262:	learn: 0.2184621	total: 1m 7s	remaining: 1m 1s
263:	learn: 0.2184160	total: 1m 8s	remaining: 1m
264:	learn: 0.2183881	total: 1m 8s	remaining: 1m
265:	learn: 0.2183549	total: 1m 8s	remaining: 1m
266:	learn: 0.2182939	total: 1m 8s	remaining: 1m
267:	learn: 0.2182220	total: 1m 9s	remaining: 59.9s
268:	learn: 0.2181716	total: 1m 9s	remaining: 59.6s
269:	learn: 0.2181074	total: 1m 9s	remaining: 59.4s
270:	learn: 0.2180156	total: 1m 10s	remaining: 59.2s
271:	learn: 0.2179275	total: 1m 10s	remaining: 58.9s
272:	learn: 0.2177648	total: 1m 10s	remaining: 58.7s
273:	learn: 0.2177077	total: 1m 10s	remaining: 58.5s
274:	learn: 0.2175986	total: 1m 11s	remaining: 58.2s
275:	learn: 0.2175140	total: 1m 11s	remaining: 58s
276:	learn: 0.2174910	total: 1m 11s	remaining: 57.7s
277:	learn: 0.2174449	total: 1m 11s	remaining: 57.5s
278:	learn: 0.2174015	total: 1m 12s	remaining: 57.2s
279:	learn: 0.2173569	total: 1m 12s	remaining: 56.9s
280:	learn: 0.2172543	total: 1m 12s	remaining: 56.7s
281:	learn: 0.2172071	total: 1m 12s	remaining: 56.4s
282:	learn: 0.2171754	total: 1m 13s	remaining: 56.2s

283:	learn: 0.2171683	total: 1m 13s	remaining: 55.9s
284:	learn: 0.2170825	total: 1m 13s	remaining: 55.6s
285:	learn: 0.2169740	total: 1m 13s	remaining: 55.3s
286:	learn: 0.2169332	total: 1m 14s	remaining: 55.1s
287:	learn: 0.2168326	total: 1m 14s	remaining: 54.8s
288:	learn: 0.2167333	total: 1m 14s	remaining: 54.5s
289:	learn: 0.2166357	total: 1m 14s	remaining: 54.3s
290:	learn: 0.2165993	total: 1m 15s	remaining: 54s
291:	learn: 0.2165432	total: 1m 15s	remaining: 53.7s
292:	learn: 0.2165207	total: 1m 15s	remaining: 53.5s
293:	learn: 0.2163818	total: 1m 15s	remaining: 53.2s
294:	learn: 0.2163225	total: 1m 16s	remaining: 52.9s
295:	learn: 0.2162429	total: 1m 16s	remaining: 52.7s
296:	learn: 0.2162245	total: 1m 16s	remaining: 52.4s
297:	learn: 0.2161707	total: 1m 16s	remaining: 52.1s
298:	learn: 0.2160550	total: 1m 17s	remaining: 51.9s
299:	learn: 0.2159635	total: 1m 17s	remaining: 51.6s
300:	learn: 0.2159013	total: 1m 17s	remaining: 51.4s
301:	learn: 0.2158891	total: 1m 17s	remaining: 51.1s
302:	learn: 0.2158478	total: 1m 18s	remaining: 50.8s
303:	learn: 0.2158266	total: 1m 18s	remaining: 50.6s
304:	learn: 0.2157097	total: 1m 18s	remaining: 50.3s
305:	learn: 0.2156287	total: 1m 18s	remaining: 50s
306:	learn: 0.2155834	total: 1m 19s	remaining: 49.8s
307:	learn: 0.2155409	total: 1m 19s	remaining: 49.5s
308:	learn: 0.2155008	total: 1m 19s	remaining: 49.2s
309:	learn: 0.2154634	total: 1m 19s	remaining: 49s
310:	learn: 0.2154187	total: 1m 20s	remaining: 48.7s
311:	learn: 0.2153988	total: 1m 20s	remaining: 48.5s
312:	learn: 0.2153790	total: 1m 20s	remaining: 48.2s
313:	learn: 0.2153650	total: 1m 20s	remaining: 47.9s
314:	learn: 0.2153489	total: 1m 21s	remaining: 47.7s
315:	learn: 0.2152426	total: 1m 21s	remaining: 47.5s
316:	learn: 0.2151019	total: 1m 21s	remaining: 47.2s
317:	learn: 0.2150671	total: 1m 22s	remaining: 47s
318:	learn: 0.2150144	total: 1m 22s	remaining: 46.7s
319:	learn: 0.2149798	total: 1m 22s	remaining: 46.5s
320:	learn: 0.2149050	total: 1m 22s	remaining: 46.2s
321:	learn: 0.2140702	total: 1m 23s	remaining: 46s
322:	learn: 0.2140157	total: 1m 23s	remaining: 45.7s
323:	learn: 0.2140103	total: 1m 23s	remaining: 45.5s
324:	learn: 0.2139592	total: 1m 24s	remaining: 45.3s
325:	learn: 0.2138174	total: 1m 24s	remaining: 45s
326:	learn: 0.2136923	total: 1m 24s	remaining: 44.7s
327:	learn: 0.2136251	total: 1m 24s	remaining: 44.5s
328:	learn: 0.2136002	total: 1m 25s	remaining: 44.2s
329:	learn: 0.2135085	total: 1m 25s	remaining: 44s
330:	learn: 0.2134827	total: 1m 25s	remaining: 43.7s

331:	learn: 0.2134609	total: 1m 25s	remaining: 43.5s
332:	learn: 0.2134142	total: 1m 26s	remaining: 43.2s
333:	learn: 0.2133712	total: 1m 26s	remaining: 43s
334:	learn: 0.2132836	total: 1m 26s	remaining: 42.7s
335:	learn: 0.2130639	total: 1m 27s	remaining: 42.5s
336:	learn: 0.2130034	total: 1m 27s	remaining: 42.2s
337:	learn: 0.2129150	total: 1m 27s	remaining: 42s
338:	learn: 0.2128998	total: 1m 27s	remaining: 41.7s
339:	learn: 0.2128573	total: 1m 28s	remaining: 41.5s
340:	learn: 0.2128272	total: 1m 28s	remaining: 41.2s
341:	learn: 0.2128005	total: 1m 28s	remaining: 41s
342:	learn: 0.2127449	total: 1m 28s	remaining: 40.7s
343:	learn: 0.2126432	total: 1m 29s	remaining: 40.5s
344:	learn: 0.2125824	total: 1m 29s	remaining: 40.2s
345:	learn: 0.2125131	total: 1m 29s	remaining: 39.9s
346:	learn: 0.2124914	total: 1m 29s	remaining: 39.7s
347:	learn: 0.2124792	total: 1m 30s	remaining: 39.4s
348:	learn: 0.2124307	total: 1m 30s	remaining: 39.2s
349:	learn: 0.2123758	total: 1m 30s	remaining: 38.9s
350:	learn: 0.2123059	total: 1m 31s	remaining: 38.6s
351:	learn: 0.2122011	total: 1m 31s	remaining: 38.4s
352:	learn: 0.2121200	total: 1m 31s	remaining: 38.1s
353:	learn: 0.2120682	total: 1m 31s	remaining: 37.9s
354:	learn: 0.2120448	total: 1m 32s	remaining: 37.6s
355:	learn: 0.2120008	total: 1m 32s	remaining: 37.4s
356:	learn: 0.2119699	total: 1m 32s	remaining: 37.1s
357:	learn: 0.2119241	total: 1m 32s	remaining: 36.8s
358:	learn: 0.2117952	total: 1m 33s	remaining: 36.6s
359:	learn: 0.2117756	total: 1m 33s	remaining: 36.3s
360:	learn: 0.2116164	total: 1m 33s	remaining: 36s
361:	learn: 0.2114919	total: 1m 33s	remaining: 35.8s
362:	learn: 0.2114707	total: 1m 34s	remaining: 35.5s
363:	learn: 0.2114062	total: 1m 34s	remaining: 35.2s
364:	learn: 0.2113412	total: 1m 34s	remaining: 35s
365:	learn: 0.2113136	total: 1m 34s	remaining: 34.7s
366:	learn: 0.2112615	total: 1m 35s	remaining: 34.4s
367:	learn: 0.2111862	total: 1m 35s	remaining: 34.2s
368:	learn: 0.2111422	total: 1m 35s	remaining: 33.9s
369:	learn: 0.2110471	total: 1m 35s	remaining: 33.6s
370:	learn: 0.2109501	total: 1m 36s	remaining: 33.4s
371:	learn: 0.2108548	total: 1m 36s	remaining: 33.1s
372:	learn: 0.2108072	total: 1m 36s	remaining: 32.9s
373:	learn: 0.2107275	total: 1m 36s	remaining: 32.6s
374:	learn: 0.2107016	total: 1m 37s	remaining: 32.4s
375:	learn: 0.2106331	total: 1m 37s	remaining: 32.1s
376:	learn: 0.2106169	total: 1m 37s	remaining: 31.9s
377:	learn: 0.2105820	total: 1m 37s	remaining: 31.6s
378:	learn: 0.2104093	total: 1m 38s	remaining: 31.3s

379:	learn: 0.2103180	total: 1m 38s	remaining: 31.1s
380:	learn: 0.2102700	total: 1m 38s	remaining: 30.8s
381:	learn: 0.2102053	total: 1m 38s	remaining: 30.6s
382:	learn: 0.2100545	total: 1m 39s	remaining: 30.3s
383:	learn: 0.2099991	total: 1m 39s	remaining: 30.1s
384:	learn: 0.2099370	total: 1m 39s	remaining: 29.8s
385:	learn: 0.2099082	total: 1m 40s	remaining: 29.5s
386:	learn: 0.2098887	total: 1m 40s	remaining: 29.3s
387:	learn: 0.2098363	total: 1m 40s	remaining: 29s
388:	learn: 0.2098087	total: 1m 40s	remaining: 28.8s
389:	learn: 0.2097775	total: 1m 41s	remaining: 28.5s
390:	learn: 0.2096702	total: 1m 41s	remaining: 28.2s
391:	learn: 0.2096130	total: 1m 41s	remaining: 28s
392:	learn: 0.2095681	total: 1m 41s	remaining: 27.7s
393:	learn: 0.2094984	total: 1m 42s	remaining: 27.5s
394:	learn: 0.2094169	total: 1m 42s	remaining: 27.2s
395:	learn: 0.2093304	total: 1m 42s	remaining: 27s
396:	learn: 0.2092693	total: 1m 43s	remaining: 26.7s
397:	learn: 0.2091703	total: 1m 43s	remaining: 26.5s
398:	learn: 0.2090726	total: 1m 43s	remaining: 26.2s
399:	learn: 0.2090469	total: 1m 43s	remaining: 26s
400:	learn: 0.2089804	total: 1m 44s	remaining: 25.7s
401:	learn: 0.2089427	total: 1m 44s	remaining: 25.4s
402:	learn: 0.2089255	total: 1m 44s	remaining: 25.2s
403:	learn: 0.2089155	total: 1m 44s	remaining: 24.9s
404:	learn: 0.2088835	total: 1m 45s	remaining: 24.7s
405:	learn: 0.2088537	total: 1m 45s	remaining: 24.4s
406:	learn: 0.2088093	total: 1m 45s	remaining: 24.2s
407:	learn: 0.2087265	total: 1m 46s	remaining: 23.9s
408:	learn: 0.2086445	total: 1m 46s	remaining: 23.6s
409:	learn: 0.2086136	total: 1m 46s	remaining: 23.4s
410:	learn: 0.2085783	total: 1m 46s	remaining: 23.1s
411:	learn: 0.2084999	total: 1m 46s	remaining: 22.9s
412:	learn: 0.2084328	total: 1m 47s	remaining: 22.6s
413:	learn: 0.2083814	total: 1m 47s	remaining: 22.3s
414:	learn: 0.2083237	total: 1m 47s	remaining: 22.1s
415:	learn: 0.2082946	total: 1m 47s	remaining: 21.8s
416:	learn: 0.2082498	total: 1m 48s	remaining: 21.5s
417:	learn: 0.2081673	total: 1m 48s	remaining: 21.3s
418:	learn: 0.2081121	total: 1m 48s	remaining: 21s
419:	learn: 0.2080228	total: 1m 48s	remaining: 20.7s
420:	learn: 0.2079327	total: 1m 49s	remaining: 20.5s
421:	learn: 0.2078806	total: 1m 49s	remaining: 20.2s
422:	learn: 0.2078050	total: 1m 49s	remaining: 20s
423:	learn: 0.2077826	total: 1m 49s	remaining: 19.7s
424:	learn: 0.2077271	total: 1m 50s	remaining: 19.4s
425:	learn: 0.2076857	total: 1m 50s	remaining: 19.2s
426:	learn: 0.2076539	total: 1m 50s	remaining: 18.9s

427:	learn: 0.2075918	total: 1m 50s	remaining: 18.6s
428:	learn: 0.2074918	total: 1m 51s	remaining: 18.4s
429:	learn: 0.2074405	total: 1m 51s	remaining: 18.1s
430:	learn: 0.2072786	total: 1m 51s	remaining: 17.8s
431:	learn: 0.2072534	total: 1m 51s	remaining: 17.6s
432:	learn: 0.2072346	total: 1m 51s	remaining: 17.3s
433:	learn: 0.2070836	total: 1m 51s	remaining: 17s
434:	learn: 0.2070381	total: 1m 52s	remaining: 16.8s
435:	learn: 0.2069593	total: 1m 52s	remaining: 16.5s
436:	learn: 0.2068635	total: 1m 52s	remaining: 16.2s
437:	learn: 0.2068214	total: 1m 52s	remaining: 16s
438:	learn: 0.2068034	total: 1m 53s	remaining: 15.7s
439:	learn: 0.2067613	total: 1m 53s	remaining: 15.4s
440:	learn: 0.2067485	total: 1m 53s	remaining: 15.2s
441:	learn: 0.2066768	total: 1m 53s	remaining: 14.9s
442:	learn: 0.2065680	total: 1m 54s	remaining: 14.7s
443:	learn: 0.2065539	total: 1m 54s	remaining: 14.4s
444:	learn: 0.2065317	total: 1m 54s	remaining: 14.2s
445:	learn: 0.2064334	total: 1m 54s	remaining: 13.9s
446:	learn: 0.2063619	total: 1m 55s	remaining: 13.7s
447:	learn: 0.2063438	total: 1m 55s	remaining: 13.4s
448:	learn: 0.2063149	total: 1m 55s	remaining: 13.1s
449:	learn: 0.2062892	total: 1m 55s	remaining: 12.9s
450:	learn: 0.2062541	total: 1m 56s	remaining: 12.6s
451:	learn: 0.2061938	total: 1m 56s	remaining: 12.4s
452:	learn: 0.2061135	total: 1m 56s	remaining: 12.1s
453:	learn: 0.2060454	total: 1m 57s	remaining: 11.9s
454:	learn: 0.2060008	total: 1m 57s	remaining: 11.6s
455:	learn: 0.2059567	total: 1m 57s	remaining: 11.3s
456:	learn: 0.2059269	total: 1m 57s	remaining: 11.1s
457:	learn: 0.2058678	total: 1m 58s	remaining: 10.8s
458:	learn: 0.2057978	total: 1m 58s	remaining: 10.6s
459:	learn: 0.2057413	total: 1m 58s	remaining: 10.3s
460:	learn: 0.2057056	total: 1m 58s	remaining: 10.1s
461:	learn: 0.2056470	total: 1m 59s	remaining: 9.8s
462:	learn: 0.2055719	total: 1m 59s	remaining: 9.55s
463:	learn: 0.2055063	total: 1m 59s	remaining: 9.29s
464:	learn: 0.2054643	total: 2m	remaining: 9.03s
465:	learn: 0.2054333	total: 2m	remaining: 8.78s
466:	learn: 0.2054001	total: 2m	remaining: 8.52s
467:	learn: 0.2053203	total: 2m	remaining: 8.26s
468:	learn: 0.2052876	total: 2m 1s	remaining: 8s
469:	learn: 0.2052573	total: 2m 1s	remaining: 7.74s
470:	learn: 0.2052386	total: 2m 1s	remaining: 7.48s
471:	learn: 0.2052081	total: 2m 1s	remaining: 7.22s
472:	learn: 0.2051291	total: 2m 2s	remaining: 6.97s
473:	learn: 0.2049979	total: 2m 2s	remaining: 6.71s
474:	learn: 0.2049589	total: 2m 2s	remaining: 6.45s

475:	learn: 0.2049331	total: 2m 2s	remaining: 6.19s
476:	learn: 0.2048832	total: 2m 3s	remaining: 5.93s
477:	learn: 0.2048729	total: 2m 3s	remaining: 5.68s
478:	learn: 0.2048337	total: 2m 3s	remaining: 5.42s
479:	learn: 0.2047965	total: 2m 3s	remaining: 5.16s
480:	learn: 0.2047191	total: 2m 4s	remaining: 4.9s
481:	learn: 0.2046479	total: 2m 4s	remaining: 4.64s
482:	learn: 0.2045602	total: 2m 4s	remaining: 4.38s
483:	learn: 0.2045067	total: 2m 4s	remaining: 4.13s
484:	learn: 0.2044402	total: 2m 5s	remaining: 3.87s
485:	learn: 0.2043969	total: 2m 5s	remaining: 3.61s
486:	learn: 0.2043358	total: 2m 5s	remaining: 3.35s
487:	learn: 0.2042418	total: 2m 5s	remaining: 3.09s
488:	learn: 0.2041964	total: 2m 6s	remaining: 2.84s
489:	learn: 0.2040963	total: 2m 6s	remaining: 2.58s
490:	learn: 0.2040883	total: 2m 6s	remaining: 2.32s
491:	learn: 0.2040071	total: 2m 6s	remaining: 2.06s
492:	learn: 0.2039672	total: 2m 7s	remaining: 1.8s
493:	learn: 0.2039327	total: 2m 7s	remaining: 1.55s
494:	learn: 0.2038660	total: 2m 7s	remaining: 1.29s
495:	learn: 0.2038001	total: 2m 7s	remaining: 1.03s
496:	learn: 0.2037560	total: 2m 8s	remaining: 774ms
497:	learn: 0.2037032	total: 2m 8s	remaining: 516ms
498:	learn: 0.2036452	total: 2m 8s	remaining: 258ms
499:	learn: 0.2035814	total: 2m 9s	remaining: 0us

Learning rate set to 0.174288

0:	learn: 0.9719698	total: 286ms	remaining: 2m 22s
1:	learn: 0.8889687	total: 563ms	remaining: 2m 20s
2:	learn: 0.8302046	total: 790ms	remaining: 2m 10s
3:	learn: 0.7389797	total: 1.1s	remaining: 2m 15s
4:	learn: 0.6649204	total: 1.36s	remaining: 2m 14s
5:	learn: 0.6391021	total: 1.56s	remaining: 2m 8s
6:	learn: 0.5663800	total: 1.78s	remaining: 2m 5s
7:	learn: 0.5302471	total: 1.98s	remaining: 2m 1s
8:	learn: 0.5162777	total: 2.19s	remaining: 1m 59s
9:	learn: 0.4859017	total: 2.4s	remaining: 1m 57s
10:	learn: 0.4471078	total: 2.65s	remaining: 1m 57s
11:	learn: 0.4165719	total: 2.87s	remaining: 1m 56s
12:	learn: 0.3932325	total: 3.1s	remaining: 1m 55s
13:	learn: 0.3743986	total: 3.32s	remaining: 1m 55s
14:	learn: 0.3584680	total: 3.55s	remaining: 1m 54s
15:	learn: 0.3456662	total: 3.83s	remaining: 1m 55s
16:	learn: 0.3352810	total: 4.11s	remaining: 1m 56s
17:	learn: 0.3327858	total: 4.4s	remaining: 1m 57s
18:	learn: 0.3237713	total: 4.64s	remaining: 1m 57s
19:	learn: 0.3203858	total: 4.91s	remaining: 1m 57s
20:	learn: 0.3153031	total: 5.17s	remaining: 1m 58s
21:	learn: 0.3046561	total: 5.45s	remaining: 1m 58s

22:	learn: 0.3029919	total: 5.73s	remaining: 1m 58s
23:	learn: 0.2950787	total: 6.01s	remaining: 1m 59s
24:	learn: 0.2878689	total: 6.28s	remaining: 1m 59s
25:	learn: 0.2819119	total: 6.56s	remaining: 1m 59s
26:	learn: 0.2811299	total: 6.82s	remaining: 1m 59s
27:	learn: 0.2763269	total: 7.06s	remaining: 1m 59s
28:	learn: 0.2745337	total: 7.32s	remaining: 1m 58s
29:	learn: 0.2703998	total: 7.55s	remaining: 1m 58s
30:	learn: 0.2669401	total: 7.82s	remaining: 1m 58s
31:	learn: 0.2641874	total: 8.07s	remaining: 1m 58s
32:	learn: 0.2617963	total: 8.31s	remaining: 1m 57s
33:	learn: 0.2597284	total: 8.56s	remaining: 1m 57s
34:	learn: 0.2592922	total: 8.83s	remaining: 1m 57s
35:	learn: 0.2588444	total: 9.09s	remaining: 1m 57s
36:	learn: 0.2584106	total: 9.35s	remaining: 1m 56s
37:	learn: 0.2579826	total: 9.59s	remaining: 1m 56s
38:	learn: 0.2572862	total: 9.84s	remaining: 1m 56s
39:	learn: 0.2567133	total: 10.1s	remaining: 1m 56s
40:	learn: 0.2564274	total: 10.3s	remaining: 1m 55s
41:	learn: 0.2560950	total: 10.6s	remaining: 1m 55s
42:	learn: 0.2558065	total: 10.9s	remaining: 1m 55s
43:	learn: 0.2551461	total: 11.1s	remaining: 1m 55s
44:	learn: 0.2536240	total: 11.4s	remaining: 1m 54s
45:	learn: 0.2533062	total: 11.6s	remaining: 1m 54s
46:	learn: 0.2531473	total: 11.9s	remaining: 1m 54s
47:	learn: 0.2528315	total: 12.1s	remaining: 1m 54s
48:	learn: 0.2512422	total: 12.4s	remaining: 1m 53s
49:	learn: 0.2511528	total: 12.6s	remaining: 1m 53s
50:	learn: 0.2509872	total: 12.8s	remaining: 1m 53s
51:	learn: 0.2509853	total: 12.9s	remaining: 1m 51s
52:	learn: 0.2508301	total: 13.2s	remaining: 1m 50s
53:	learn: 0.2490411	total: 13.4s	remaining: 1m 50s
54:	learn: 0.2487150	total: 13.7s	remaining: 1m 51s
55:	learn: 0.2483528	total: 14s	remaining: 1m 50s
56:	learn: 0.2475048	total: 14.3s	remaining: 1m 51s
57:	learn: 0.2472802	total: 14.5s	remaining: 1m 50s
58:	learn: 0.2470979	total: 14.8s	remaining: 1m 50s
59:	learn: 0.2469519	total: 15.1s	remaining: 1m 50s
60:	learn: 0.2467770	total: 15.4s	remaining: 1m 50s
61:	learn: 0.2464441	total: 15.7s	remaining: 1m 50s
62:	learn: 0.2461448	total: 16s	remaining: 1m 50s
63:	learn: 0.2457294	total: 16.2s	remaining: 1m 50s
64:	learn: 0.2455217	total: 16.5s	remaining: 1m 50s
65:	learn: 0.2452981	total: 16.8s	remaining: 1m 50s
66:	learn: 0.2444444	total: 17.1s	remaining: 1m 50s
67:	learn: 0.2436182	total: 17.3s	remaining: 1m 50s
68:	learn: 0.2435417	total: 17.6s	remaining: 1m 50s
69:	learn: 0.2432381	total: 17.9s	remaining: 1m 50s

70:	learn: 0.2431593	total: 18.2s	remaining: 1m 49s
71:	learn: 0.2429950	total: 18.5s	remaining: 1m 49s
72:	learn: 0.2427929	total: 18.7s	remaining: 1m 49s
73:	learn: 0.2424868	total: 19s	remaining: 1m 49s
74:	learn: 0.2421575	total: 19.3s	remaining: 1m 49s
75:	learn: 0.2419586	total: 19.6s	remaining: 1m 49s
76:	learn: 0.2417162	total: 19.9s	remaining: 1m 49s
77:	learn: 0.2414342	total: 20.2s	remaining: 1m 49s
78:	learn: 0.2411569	total: 20.5s	remaining: 1m 49s
79:	learn: 0.2410887	total: 20.7s	remaining: 1m 48s
80:	learn: 0.2408712	total: 21s	remaining: 1m 48s
81:	learn: 0.2408170	total: 21.3s	remaining: 1m 48s
82:	learn: 0.2406324	total: 21.6s	remaining: 1m 48s
83:	learn: 0.2405793	total: 21.8s	remaining: 1m 48s
84:	learn: 0.2404839	total: 22.1s	remaining: 1m 47s
85:	learn: 0.2404524	total: 22.4s	remaining: 1m 47s
86:	learn: 0.2403610	total: 22.6s	remaining: 1m 47s
87:	learn: 0.2402703	total: 22.9s	remaining: 1m 47s
88:	learn: 0.2402141	total: 23.2s	remaining: 1m 46s
89:	learn: 0.2399730	total: 23.4s	remaining: 1m 46s
90:	learn: 0.2399024	total: 23.7s	remaining: 1m 46s
91:	learn: 0.2396231	total: 23.9s	remaining: 1m 46s
92:	learn: 0.2393269	total: 24.2s	remaining: 1m 45s
93:	learn: 0.2392205	total: 24.4s	remaining: 1m 45s
94:	learn: 0.2391707	total: 24.7s	remaining: 1m 45s
95:	learn: 0.2390859	total: 24.9s	remaining: 1m 44s
96:	learn: 0.2389112	total: 25.2s	remaining: 1m 44s
97:	learn: 0.2386769	total: 25.4s	remaining: 1m 44s
98:	learn: 0.2384678	total: 25.7s	remaining: 1m 44s
99:	learn: 0.2384385	total: 25.9s	remaining: 1m 43s
100:	learn: 0.2378593	total: 26.1s	remaining: 1m 43s
101:	learn: 0.2377751	total: 26.3s	remaining: 1m 42s
102:	learn: 0.2376559	total: 26.6s	remaining: 1m 42s
103:	learn: 0.2372353	total: 26.8s	remaining: 1m 42s
104:	learn: 0.2371529	total: 27.1s	remaining: 1m 42s
105:	learn: 0.2370202	total: 27.4s	remaining: 1m 41s
106:	learn: 0.2369437	total: 27.6s	remaining: 1m 41s
107:	learn: 0.2368570	total: 27.9s	remaining: 1m 41s
108:	learn: 0.2367818	total: 28.1s	remaining: 1m 40s
109:	learn: 0.2366613	total: 28.4s	remaining: 1m 40s
110:	learn: 0.2364043	total: 28.7s	remaining: 1m 40s
111:	learn: 0.2362644	total: 28.9s	remaining: 1m 40s
112:	learn: 0.2362042	total: 29.1s	remaining: 1m 39s
113:	learn: 0.2361801	total: 29.4s	remaining: 1m 39s
114:	learn: 0.2360964	total: 29.6s	remaining: 1m 39s
115:	learn: 0.2359713	total: 29.9s	remaining: 1m 38s
116:	learn: 0.2357732	total: 30.2s	remaining: 1m 38s
117:	learn: 0.2357231	total: 30.4s	remaining: 1m 38s

118:	learn: 0.2356456	total: 30.7s	remaining: 1m 38s
119:	learn: 0.2355365	total: 31s	remaining: 1m 38s
120:	learn: 0.2353697	total: 31.2s	remaining: 1m 37s
121:	learn: 0.2351700	total: 31.5s	remaining: 1m 37s
122:	learn: 0.2350711	total: 31.8s	remaining: 1m 37s
123:	learn: 0.2350381	total: 32s	remaining: 1m 37s
124:	learn: 0.2349859	total: 32.3s	remaining: 1m 36s
125:	learn: 0.2342457	total: 32.6s	remaining: 1m 36s
126:	learn: 0.2340099	total: 32.9s	remaining: 1m 36s
127:	learn: 0.2339144	total: 33.2s	remaining: 1m 36s
128:	learn: 0.2336985	total: 33.4s	remaining: 1m 36s
129:	learn: 0.2336080	total: 33.7s	remaining: 1m 35s
130:	learn: 0.2335890	total: 34s	remaining: 1m 35s
131:	learn: 0.2335546	total: 34.2s	remaining: 1m 35s
132:	learn: 0.2334468	total: 34.5s	remaining: 1m 35s
133:	learn: 0.2333779	total: 34.8s	remaining: 1m 34s
134:	learn: 0.2332844	total: 35.1s	remaining: 1m 34s
135:	learn: 0.2331989	total: 35.3s	remaining: 1m 34s
136:	learn: 0.2331879	total: 35.6s	remaining: 1m 34s
137:	learn: 0.2330664	total: 35.9s	remaining: 1m 34s
138:	learn: 0.2329557	total: 36.2s	remaining: 1m 33s
139:	learn: 0.2328668	total: 36.5s	remaining: 1m 33s
140:	learn: 0.2327864	total: 36.7s	remaining: 1m 33s
141:	learn: 0.2323780	total: 37s	remaining: 1m 33s
142:	learn: 0.2323152	total: 37.2s	remaining: 1m 32s
143:	learn: 0.2322755	total: 37.5s	remaining: 1m 32s
144:	learn: 0.2322161	total: 37.8s	remaining: 1m 32s
145:	learn: 0.2321791	total: 38.1s	remaining: 1m 32s
146:	learn: 0.2321516	total: 38.3s	remaining: 1m 32s
147:	learn: 0.2320712	total: 38.6s	remaining: 1m 31s
148:	learn: 0.2319492	total: 38.9s	remaining: 1m 31s
149:	learn: 0.2318841	total: 39.2s	remaining: 1m 31s
150:	learn: 0.2317166	total: 39.5s	remaining: 1m 31s
151:	learn: 0.2315201	total: 39.7s	remaining: 1m 30s
152:	learn: 0.2314040	total: 40s	remaining: 1m 30s
153:	learn: 0.2313561	total: 40.3s	remaining: 1m 30s
154:	learn: 0.2311730	total: 40.6s	remaining: 1m 30s
155:	learn: 0.2308823	total: 40.8s	remaining: 1m 29s
156:	learn: 0.2304065	total: 41s	remaining: 1m 29s
157:	learn: 0.2303597	total: 41.3s	remaining: 1m 29s
158:	learn: 0.2300723	total: 41.5s	remaining: 1m 29s
159:	learn: 0.2298769	total: 41.8s	remaining: 1m 28s
160:	learn: 0.2296913	total: 42.1s	remaining: 1m 28s
161:	learn: 0.2295901	total: 42.3s	remaining: 1m 28s
162:	learn: 0.2295471	total: 42.6s	remaining: 1m 28s
163:	learn: 0.2294638	total: 42.8s	remaining: 1m 27s
164:	learn: 0.2293606	total: 43.1s	remaining: 1m 27s
165:	learn: 0.2292934	total: 43.3s	remaining: 1m 27s

166:	learn: 0.2292378	total: 43.6s	remaining: 1m 26s
167:	learn: 0.2290516	total: 43.8s	remaining: 1m 26s
168:	learn: 0.2289700	total: 44.1s	remaining: 1m 26s
169:	learn: 0.2288944	total: 44.3s	remaining: 1m 26s
170:	learn: 0.2286017	total: 44.5s	remaining: 1m 25s
171:	learn: 0.2284805	total: 44.8s	remaining: 1m 25s
172:	learn: 0.2284089	total: 45.1s	remaining: 1m 25s
173:	learn: 0.2283223	total: 45.3s	remaining: 1m 24s
174:	learn: 0.2281774	total: 45.6s	remaining: 1m 24s
175:	learn: 0.2280160	total: 45.9s	remaining: 1m 24s
176:	learn: 0.2279262	total: 46.1s	remaining: 1m 24s
177:	learn: 0.2279060	total: 46.4s	remaining: 1m 23s
178:	learn: 0.2278051	total: 46.6s	remaining: 1m 23s
179:	learn: 0.2277486	total: 46.9s	remaining: 1m 23s
180:	learn: 0.2275652	total: 47.1s	remaining: 1m 23s
181:	learn: 0.2275412	total: 47.4s	remaining: 1m 22s
182:	learn: 0.2274781	total: 47.6s	remaining: 1m 22s
183:	learn: 0.2274339	total: 47.9s	remaining: 1m 22s
184:	learn: 0.2273635	total: 48.2s	remaining: 1m 22s
185:	learn: 0.2272994	total: 48.5s	remaining: 1m 21s
186:	learn: 0.2272757	total: 48.8s	remaining: 1m 21s
187:	learn: 0.2271912	total: 49.1s	remaining: 1m 21s
188:	learn: 0.2270815	total: 49.4s	remaining: 1m 21s
189:	learn: 0.2269875	total: 49.7s	remaining: 1m 21s
190:	learn: 0.2268478	total: 50s	remaining: 1m 20s
191:	learn: 0.2267911	total: 50.2s	remaining: 1m 20s
192:	learn: 0.2267092	total: 50.5s	remaining: 1m 20s
193:	learn: 0.2265782	total: 50.8s	remaining: 1m 20s
194:	learn: 0.2264319	total: 51s	remaining: 1m 19s
195:	learn: 0.2263963	total: 51.3s	remaining: 1m 19s
196:	learn: 0.2262864	total: 51.6s	remaining: 1m 19s
197:	learn: 0.2262543	total: 51.9s	remaining: 1m 19s
198:	learn: 0.2261411	total: 52.2s	remaining: 1m 18s
199:	learn: 0.2260174	total: 52.5s	remaining: 1m 18s
200:	learn: 0.2259830	total: 52.7s	remaining: 1m 18s
201:	learn: 0.2256197	total: 53s	remaining: 1m 18s
202:	learn: 0.2255478	total: 53.3s	remaining: 1m 17s
203:	learn: 0.2255189	total: 53.5s	remaining: 1m 17s
204:	learn: 0.2254662	total: 53.8s	remaining: 1m 17s
205:	learn: 0.2250308	total: 54.1s	remaining: 1m 17s
206:	learn: 0.2249223	total: 54.4s	remaining: 1m 16s
207:	learn: 0.2248778	total: 54.6s	remaining: 1m 16s
208:	learn: 0.2247180	total: 54.9s	remaining: 1m 16s
209:	learn: 0.2246355	total: 55.2s	remaining: 1m 16s
210:	learn: 0.2245862	total: 55.4s	remaining: 1m 15s
211:	learn: 0.2245117	total: 55.7s	remaining: 1m 15s
212:	learn: 0.2244145	total: 56s	remaining: 1m 15s
213:	learn: 0.2243281	total: 56.3s	remaining: 1m 15s

214:	learn: 0.2242654	total: 56.5s	remaining: 1m 14s
215:	learn: 0.2241696	total: 56.8s	remaining: 1m 14s
216:	learn: 0.2240534	total: 57s	remaining: 1m 14s
217:	learn: 0.2239890	total: 57.2s	remaining: 1m 14s
218:	learn: 0.2238958	total: 57.5s	remaining: 1m 13s
219:	learn: 0.2238760	total: 57.7s	remaining: 1m 13s
220:	learn: 0.2238230	total: 58s	remaining: 1m 13s
221:	learn: 0.2236892	total: 58.2s	remaining: 1m 12s
222:	learn: 0.2235953	total: 58.5s	remaining: 1m 12s
223:	learn: 0.2235538	total: 58.7s	remaining: 1m 12s
224:	learn: 0.2235093	total: 58.9s	remaining: 1m 12s
225:	learn: 0.2233974	total: 59.2s	remaining: 1m 11s
226:	learn: 0.2233555	total: 59.4s	remaining: 1m 11s
227:	learn: 0.2232233	total: 59.7s	remaining: 1m 11s
228:	learn: 0.2231613	total: 59.9s	remaining: 1m 10s
229:	learn: 0.2230093	total: 1m	remaining: 1m 10s
230:	learn: 0.2228203	total: 1m	remaining: 1m 10s
231:	learn: 0.2227591	total: 1m	remaining: 1m 10s
232:	learn: 0.2227205	total: 1m	remaining: 1m 9s
233:	learn: 0.2226571	total: 1m 1s	remaining: 1m 9s
234:	learn: 0.2225714	total: 1m 1s	remaining: 1m 9s
235:	learn: 0.2225533	total: 1m 1s	remaining: 1m 8s
236:	learn: 0.2224429	total: 1m 1s	remaining: 1m 8s
237:	learn: 0.2223707	total: 1m 2s	remaining: 1m 8s
238:	learn: 0.2223180	total: 1m 2s	remaining: 1m 8s
239:	learn: 0.2222483	total: 1m 2s	remaining: 1m 7s
240:	learn: 0.2222094	total: 1m 2s	remaining: 1m 7s
241:	learn: 0.2221487	total: 1m 3s	remaining: 1m 7s
242:	learn: 0.2221137	total: 1m 3s	remaining: 1m 7s
243:	learn: 0.2219504	total: 1m 3s	remaining: 1m 6s
244:	learn: 0.2219136	total: 1m 3s	remaining: 1m 6s
245:	learn: 0.2218148	total: 1m 4s	remaining: 1m 6s
246:	learn: 0.2217059	total: 1m 4s	remaining: 1m 6s
247:	learn: 0.2215989	total: 1m 4s	remaining: 1m 5s
248:	learn: 0.2215032	total: 1m 5s	remaining: 1m 5s
249:	learn: 0.2214584	total: 1m 5s	remaining: 1m 5s
250:	learn: 0.2213711	total: 1m 5s	remaining: 1m 4s
251:	learn: 0.2213096	total: 1m 5s	remaining: 1m 4s
252:	learn: 0.2212213	total: 1m 6s	remaining: 1m 4s
253:	learn: 0.2211625	total: 1m 6s	remaining: 1m 4s
254:	learn: 0.2210537	total: 1m 6s	remaining: 1m 3s
255:	learn: 0.2209779	total: 1m 6s	remaining: 1m 3s
256:	learn: 0.2209237	total: 1m 7s	remaining: 1m 3s
257:	learn: 0.2209061	total: 1m 7s	remaining: 1m 3s
258:	learn: 0.2207906	total: 1m 7s	remaining: 1m 3s
259:	learn: 0.2207015	total: 1m 7s	remaining: 1m 2s
260:	learn: 0.2205990	total: 1m 8s	remaining: 1m 2s
261:	learn: 0.2205044	total: 1m 8s	remaining: 1m 2s

262:	learn: 0.2204614	total: 1m 8s	remaining: 1m 2s
263:	learn: 0.2204245	total: 1m 9s	remaining: 1m 1s
264:	learn: 0.2203032	total: 1m 9s	remaining: 1m 1s
265:	learn: 0.2202457	total: 1m 9s	remaining: 1m 1s
266:	learn: 0.2201893	total: 1m 9s	remaining: 1m 1s
267:	learn: 0.2201317	total: 1m 10s	remaining: 1m
268:	learn: 0.2201107	total: 1m 10s	remaining: 1m
269:	learn: 0.2200695	total: 1m 10s	remaining: 1m
270:	learn: 0.2200110	total: 1m 11s	remaining: 1m
271:	learn: 0.2199253	total: 1m 11s	remaining: 59.8s
272:	learn: 0.2198603	total: 1m 11s	remaining: 59.6s
273:	learn: 0.2197346	total: 1m 11s	remaining: 59.3s
274:	learn: 0.2196425	total: 1m 12s	remaining: 59.1s
275:	learn: 0.2195859	total: 1m 12s	remaining: 58.8s
276:	learn: 0.2194985	total: 1m 12s	remaining: 58.5s
277:	learn: 0.2194467	total: 1m 12s	remaining: 58.2s
278:	learn: 0.2193371	total: 1m 13s	remaining: 58s
279:	learn: 0.2192941	total: 1m 13s	remaining: 57.7s
280:	learn: 0.2192397	total: 1m 13s	remaining: 57.4s
281:	learn: 0.2191762	total: 1m 13s	remaining: 57.2s
282:	learn: 0.2191181	total: 1m 14s	remaining: 56.9s
283:	learn: 0.2190287	total: 1m 14s	remaining: 56.6s
284:	learn: 0.2189405	total: 1m 14s	remaining: 56.4s
285:	learn: 0.2189204	total: 1m 14s	remaining: 56.1s
286:	learn: 0.2188636	total: 1m 15s	remaining: 55.8s
287:	learn: 0.2185338	total: 1m 15s	remaining: 55.6s
288:	learn: 0.2184623	total: 1m 15s	remaining: 55.3s
289:	learn: 0.2184057	total: 1m 16s	remaining: 55s
290:	learn: 0.2183977	total: 1m 16s	remaining: 54.8s
291:	learn: 0.2183742	total: 1m 16s	remaining: 54.5s
292:	learn: 0.2183162	total: 1m 16s	remaining: 54.2s
293:	learn: 0.2182715	total: 1m 16s	remaining: 53.9s
294:	learn: 0.2181628	total: 1m 17s	remaining: 53.7s
295:	learn: 0.2181419	total: 1m 17s	remaining: 53.3s
296:	learn: 0.2180496	total: 1m 17s	remaining: 53.1s
297:	learn: 0.2180198	total: 1m 17s	remaining: 52.7s
298:	learn: 0.2179273	total: 1m 18s	remaining: 52.4s
299:	learn: 0.2178682	total: 1m 18s	remaining: 52.2s
300:	learn: 0.2178485	total: 1m 18s	remaining: 51.9s
301:	learn: 0.2178061	total: 1m 18s	remaining: 51.6s
302:	learn: 0.2177605	total: 1m 18s	remaining: 51.3s
303:	learn: 0.2176206	total: 1m 19s	remaining: 51s
304:	learn: 0.2175768	total: 1m 19s	remaining: 50.6s
305:	learn: 0.2175260	total: 1m 19s	remaining: 50.3s
306:	learn: 0.2174846	total: 1m 19s	remaining: 50s
307:	learn: 0.2174440	total: 1m 19s	remaining: 49.8s
308:	learn: 0.2173803	total: 1m 20s	remaining: 49.5s
309:	learn: 0.2173459	total: 1m 20s	remaining: 49.3s

310:	learn: 0.2173220	total: 1m 20s	remaining: 49s
311:	learn: 0.2172541	total: 1m 20s	remaining: 48.8s
312:	learn: 0.2171465	total: 1m 21s	remaining: 48.5s
313:	learn: 0.2170833	total: 1m 21s	remaining: 48.3s
314:	learn: 0.2170217	total: 1m 21s	remaining: 48s
315:	learn: 0.2168852	total: 1m 21s	remaining: 47.7s
316:	learn: 0.2168065	total: 1m 22s	remaining: 47.5s
317:	learn: 0.2166932	total: 1m 22s	remaining: 47.2s
318:	learn: 0.2166436	total: 1m 22s	remaining: 47s
319:	learn: 0.2165329	total: 1m 23s	remaining: 46.8s
320:	learn: 0.2163927	total: 1m 23s	remaining: 46.5s
321:	learn: 0.2163651	total: 1m 23s	remaining: 46.2s
322:	learn: 0.2162667	total: 1m 23s	remaining: 46s
323:	learn: 0.2162278	total: 1m 24s	remaining: 45.7s
324:	learn: 0.2160210	total: 1m 24s	remaining: 45.5s
325:	learn: 0.2159353	total: 1m 24s	remaining: 45.2s
326:	learn: 0.2159039	total: 1m 24s	remaining: 45s
327:	learn: 0.2158800	total: 1m 25s	remaining: 44.7s
328:	learn: 0.2158565	total: 1m 25s	remaining: 44.4s
329:	learn: 0.2158313	total: 1m 25s	remaining: 44.1s
330:	learn: 0.2157707	total: 1m 25s	remaining: 43.9s
331:	learn: 0.2157652	total: 1m 26s	remaining: 43.6s
332:	learn: 0.2157338	total: 1m 26s	remaining: 43.4s
333:	learn: 0.2156919	total: 1m 26s	remaining: 43.1s
334:	learn: 0.2156038	total: 1m 27s	remaining: 42.9s
335:	learn: 0.2155739	total: 1m 27s	remaining: 42.6s
336:	learn: 0.2155602	total: 1m 27s	remaining: 42.3s
337:	learn: 0.2155158	total: 1m 27s	remaining: 42.1s
338:	learn: 0.2154238	total: 1m 28s	remaining: 41.8s
339:	learn: 0.2152804	total: 1m 28s	remaining: 41.6s
340:	learn: 0.2152473	total: 1m 28s	remaining: 41.3s
341:	learn: 0.2151973	total: 1m 28s	remaining: 41.1s
342:	learn: 0.2150932	total: 1m 29s	remaining: 40.8s
343:	learn: 0.2150482	total: 1m 29s	remaining: 40.5s
344:	learn: 0.2150232	total: 1m 29s	remaining: 40.3s
345:	learn: 0.2149235	total: 1m 29s	remaining: 40s
346:	learn: 0.2148856	total: 1m 30s	remaining: 39.7s
347:	learn: 0.2147962	total: 1m 30s	remaining: 39.4s
348:	learn: 0.2147544	total: 1m 30s	remaining: 39.2s
349:	learn: 0.2146786	total: 1m 30s	remaining: 38.9s
350:	learn: 0.2146565	total: 1m 31s	remaining: 38.6s
351:	learn: 0.2146419	total: 1m 31s	remaining: 38.4s
352:	learn: 0.2146157	total: 1m 31s	remaining: 38.1s
353:	learn: 0.2145861	total: 1m 31s	remaining: 37.8s
354:	learn: 0.2145490	total: 1m 32s	remaining: 37.6s
355:	learn: 0.2145009	total: 1m 32s	remaining: 37.3s
356:	learn: 0.2144835	total: 1m 32s	remaining: 37s
357:	learn: 0.2144147	total: 1m 32s	remaining: 36.8s

358:	learn: 0.2143376	total: 1m 32s	remaining: 36.5s
359:	learn: 0.2142731	total: 1m 33s	remaining: 36.2s
360:	learn: 0.2142238	total: 1m 33s	remaining: 36s
361:	learn: 0.2141348	total: 1m 33s	remaining: 35.7s
362:	learn: 0.2140535	total: 1m 34s	remaining: 35.5s
363:	learn: 0.2140361	total: 1m 34s	remaining: 35.2s
364:	learn: 0.2139574	total: 1m 34s	remaining: 35s
365:	learn: 0.2138687	total: 1m 34s	remaining: 34.7s
366:	learn: 0.2137892	total: 1m 35s	remaining: 34.5s
367:	learn: 0.2137715	total: 1m 35s	remaining: 34.2s
368:	learn: 0.2137050	total: 1m 35s	remaining: 34s
369:	learn: 0.2136469	total: 1m 35s	remaining: 33.7s
370:	learn: 0.2135419	total: 1m 36s	remaining: 33.5s
371:	learn: 0.2134954	total: 1m 36s	remaining: 33.2s
372:	learn: 0.2134353	total: 1m 36s	remaining: 33s
373:	learn: 0.2133850	total: 1m 37s	remaining: 32.7s
374:	learn: 0.2133534	total: 1m 37s	remaining: 32.5s
375:	learn: 0.2132839	total: 1m 37s	remaining: 32.2s
376:	learn: 0.2132433	total: 1m 37s	remaining: 32s
377:	learn: 0.2131835	total: 1m 38s	remaining: 31.7s
378:	learn: 0.2131210	total: 1m 38s	remaining: 31.5s
379:	learn: 0.2131086	total: 1m 38s	remaining: 31.2s
380:	learn: 0.2129831	total: 1m 39s	remaining: 30.9s
381:	learn: 0.2129419	total: 1m 39s	remaining: 30.7s
382:	learn: 0.2128630	total: 1m 39s	remaining: 30.5s
383:	learn: 0.2128290	total: 1m 39s	remaining: 30.2s
384:	learn: 0.2128118	total: 1m 40s	remaining: 29.9s
385:	learn: 0.2127434	total: 1m 40s	remaining: 29.7s
386:	learn: 0.2126941	total: 1m 40s	remaining: 29.4s
387:	learn: 0.2126195	total: 1m 41s	remaining: 29.2s
388:	learn: 0.2124763	total: 1m 41s	remaining: 28.9s
389:	learn: 0.2123994	total: 1m 41s	remaining: 28.7s
390:	learn: 0.2123754	total: 1m 41s	remaining: 28.4s
391:	learn: 0.2122997	total: 1m 42s	remaining: 28.1s
392:	learn: 0.2121726	total: 1m 42s	remaining: 27.9s
393:	learn: 0.2121211	total: 1m 42s	remaining: 27.6s
394:	learn: 0.2120919	total: 1m 42s	remaining: 27.4s
395:	learn: 0.2120170	total: 1m 43s	remaining: 27.1s
396:	learn: 0.2119119	total: 1m 43s	remaining: 26.9s
397:	learn: 0.2118707	total: 1m 43s	remaining: 26.6s
398:	learn: 0.2118462	total: 1m 44s	remaining: 26.3s
399:	learn: 0.2117978	total: 1m 44s	remaining: 26.1s
400:	learn: 0.2117252	total: 1m 44s	remaining: 25.8s
401:	learn: 0.2116586	total: 1m 44s	remaining: 25.5s
402:	learn: 0.2116008	total: 1m 45s	remaining: 25.3s
403:	learn: 0.2115255	total: 1m 45s	remaining: 25s
404:	learn: 0.2114718	total: 1m 45s	remaining: 24.8s
405:	learn: 0.2114408	total: 1m 45s	remaining: 24.5s

406:	learn: 0.2113774	total: 1m 46s	remaining: 24.2s
407:	learn: 0.2113426	total: 1m 46s	remaining: 24s
408:	learn: 0.2112402	total: 1m 46s	remaining: 23.7s
409:	learn: 0.2111580	total: 1m 46s	remaining: 23.4s
410:	learn: 0.2110740	total: 1m 46s	remaining: 23.2s
411:	learn: 0.2109438	total: 1m 47s	remaining: 22.9s
412:	learn: 0.2108588	total: 1m 47s	remaining: 22.6s
413:	learn: 0.2108220	total: 1m 47s	remaining: 22.4s
414:	learn: 0.2107444	total: 1m 48s	remaining: 22.1s
415:	learn: 0.2106828	total: 1m 48s	remaining: 21.9s
416:	learn: 0.2105950	total: 1m 48s	remaining: 21.6s
417:	learn: 0.2105254	total: 1m 48s	remaining: 21.3s
418:	learn: 0.2104194	total: 1m 49s	remaining: 21.1s
419:	learn: 0.2103450	total: 1m 49s	remaining: 20.8s
420:	learn: 0.2102966	total: 1m 49s	remaining: 20.6s
421:	learn: 0.2102424	total: 1m 49s	remaining: 20.3s
422:	learn: 0.2101990	total: 1m 50s	remaining: 20s
423:	learn: 0.2100975	total: 1m 50s	remaining: 19.8s
424:	learn: 0.2100405	total: 1m 50s	remaining: 19.5s
425:	learn: 0.2100026	total: 1m 50s	remaining: 19.3s
426:	learn: 0.2099422	total: 1m 51s	remaining: 19s
427:	learn: 0.2099128	total: 1m 51s	remaining: 18.8s
428:	learn: 0.2098781	total: 1m 51s	remaining: 18.5s
429:	learn: 0.2098516	total: 1m 52s	remaining: 18.2s
430:	learn: 0.2098302	total: 1m 52s	remaining: 18s
431:	learn: 0.2097913	total: 1m 52s	remaining: 17.7s
432:	learn: 0.2097544	total: 1m 52s	remaining: 17.5s
433:	learn: 0.2097322	total: 1m 53s	remaining: 17.2s
434:	learn: 0.2096643	total: 1m 53s	remaining: 16.9s
435:	learn: 0.2096486	total: 1m 53s	remaining: 16.7s
436:	learn: 0.2096205	total: 1m 53s	remaining: 16.4s
437:	learn: 0.2095677	total: 1m 54s	remaining: 16.2s
438:	learn: 0.2094974	total: 1m 54s	remaining: 15.9s
439:	learn: 0.2094223	total: 1m 54s	remaining: 15.7s
440:	learn: 0.2093647	total: 1m 55s	remaining: 15.4s
441:	learn: 0.2093120	total: 1m 55s	remaining: 15.1s
442:	learn: 0.2092873	total: 1m 55s	remaining: 14.9s
443:	learn: 0.2092290	total: 1m 55s	remaining: 14.6s
444:	learn: 0.2091789	total: 1m 56s	remaining: 14.4s
445:	learn: 0.2091379	total: 1m 56s	remaining: 14.1s
446:	learn: 0.2091063	total: 1m 56s	remaining: 13.8s
447:	learn: 0.2090812	total: 1m 57s	remaining: 13.6s
448:	learn: 0.2090268	total: 1m 57s	remaining: 13.3s
449:	learn: 0.2089973	total: 1m 57s	remaining: 13.1s
450:	learn: 0.2088991	total: 1m 57s	remaining: 12.8s
451:	learn: 0.2087626	total: 1m 58s	remaining: 12.5s
452:	learn: 0.2087010	total: 1m 58s	remaining: 12.3s
453:	learn: 0.2086411	total: 1m 58s	remaining: 12s

454:	learn: 0.2085866	total: 1m 58s	remaining: 11.8s
455:	learn: 0.2084105	total: 1m 59s	remaining: 11.5s
456:	learn: 0.2083910	total: 1m 59s	remaining: 11.2s
457:	learn: 0.2083422	total: 1m 59s	remaining: 11s
458:	learn: 0.2082088	total: 2m	remaining: 10.7s
459:	learn: 0.2081647	total: 2m	remaining: 10.5s
460:	learn: 0.2080880	total: 2m	remaining: 10.2s
461:	learn: 0.2079216	total: 2m	remaining: 9.94s
462:	learn: 0.2078733	total: 2m 1s	remaining: 9.67s
463:	learn: 0.2078515	total: 2m 1s	remaining: 9.41s
464:	learn: 0.2078029	total: 2m 1s	remaining: 9.15s
465:	learn: 0.2077374	total: 2m 1s	remaining: 8.89s
466:	learn: 0.2076810	total: 2m 2s	remaining: 8.63s
467:	learn: 0.2076442	total: 2m 2s	remaining: 8.36s
468:	learn: 0.2075813	total: 2m 2s	remaining: 8.1s
469:	learn: 0.2075236	total: 2m 2s	remaining: 7.84s
470:	learn: 0.2074047	total: 2m 3s	remaining: 7.58s
471:	learn: 0.2073488	total: 2m 3s	remaining: 7.32s
472:	learn: 0.2072973	total: 2m 3s	remaining: 7.05s
473:	learn: 0.2072368	total: 2m 3s	remaining: 6.79s
474:	learn: 0.2071934	total: 2m 4s	remaining: 6.53s
475:	learn: 0.2071251	total: 2m 4s	remaining: 6.27s
476:	learn: 0.2070076	total: 2m 4s	remaining: 6.01s
477:	learn: 0.2069404	total: 2m 4s	remaining: 5.75s
478:	learn: 0.2068192	total: 2m 5s	remaining: 5.49s
479:	learn: 0.2067915	total: 2m 5s	remaining: 5.23s
480:	learn: 0.2066120	total: 2m 5s	remaining: 4.97s
481:	learn: 0.2064630	total: 2m 5s	remaining: 4.71s
482:	learn: 0.2064233	total: 2m 6s	remaining: 4.44s
483:	learn: 0.2064003	total: 2m 6s	remaining: 4.18s
484:	learn: 0.2062914	total: 2m 6s	remaining: 3.92s
485:	learn: 0.2062717	total: 2m 7s	remaining: 3.66s
486:	learn: 0.2062276	total: 2m 7s	remaining: 3.4s
487:	learn: 0.2061788	total: 2m 7s	remaining: 3.14s
488:	learn: 0.2061252	total: 2m 7s	remaining: 2.88s
489:	learn: 0.2059490	total: 2m 8s	remaining: 2.62s
490:	learn: 0.2059297	total: 2m 8s	remaining: 2.35s
491:	learn: 0.2059228	total: 2m 8s	remaining: 2.09s
492:	learn: 0.2059082	total: 2m 9s	remaining: 1.83s
493:	learn: 0.2058667	total: 2m 9s	remaining: 1.57s
494:	learn: 0.2057676	total: 2m 9s	remaining: 1.31s
495:	learn: 0.2057135	total: 2m 9s	remaining: 1.05s
496:	learn: 0.2056573	total: 2m 10s	remaining: 786ms
497:	learn: 0.2055840	total: 2m 10s	remaining: 524ms
498:	learn: 0.2055336	total: 2m 10s	remaining: 262ms
499:	learn: 0.2054904	total: 2m 11s	remaining: 0us
Learning rate set to 0.174288			
0:	learn: 0.9719443	total: 211ms	remaining: 1m 45s

1:	learn: 0.8892711	total: 422ms	remaining: 1m 44s
2:	learn: 0.8306438	total: 603ms	remaining: 1m 39s
3:	learn: 0.7386466	total: 834ms	remaining: 1m 43s
4:	learn: 0.6656243	total: 1.06s	remaining: 1m 45s
5:	learn: 0.6400953	total: 1.27s	remaining: 1m 45s
6:	learn: 0.6186335	total: 1.48s	remaining: 1m 44s
7:	learn: 0.5562085	total: 1.7s	remaining: 1m 44s
8:	learn: 0.5060478	total: 1.97s	remaining: 1m 47s
9:	learn: 0.4684576	total: 2.23s	remaining: 1m 49s
10:	learn: 0.4396376	total: 2.52s	remaining: 1m 52s
11:	learn: 0.4216286	total: 2.78s	remaining: 1m 53s
12:	learn: 0.4008018	total: 3.04s	remaining: 1m 53s
13:	learn: 0.3843863	total: 3.3s	remaining: 1m 54s
14:	learn: 0.3693819	total: 3.55s	remaining: 1m 54s
15:	learn: 0.3584437	total: 3.81s	remaining: 1m 55s
16:	learn: 0.3486471	total: 4.08s	remaining: 1m 55s
17:	learn: 0.3381052	total: 4.35s	remaining: 1m 56s
18:	learn: 0.3236456	total: 4.62s	remaining: 1m 57s
19:	learn: 0.3120731	total: 4.88s	remaining: 1m 57s
20:	learn: 0.3025687	total: 5.13s	remaining: 1m 56s
21:	learn: 0.2995086	total: 5.38s	remaining: 1m 57s
22:	learn: 0.2963259	total: 5.63s	remaining: 1m 56s
23:	learn: 0.2886502	total: 5.89s	remaining: 1m 56s
24:	learn: 0.2869495	total: 6.16s	remaining: 1m 57s
25:	learn: 0.2860337	total: 6.44s	remaining: 1m 57s
26:	learn: 0.2845343	total: 6.7s	remaining: 1m 57s
27:	learn: 0.2807250	total: 6.98s	remaining: 1m 57s
28:	learn: 0.2793565	total: 7.23s	remaining: 1m 57s
29:	learn: 0.2756267	total: 7.5s	remaining: 1m 57s
30:	learn: 0.2711033	total: 7.76s	remaining: 1m 57s
31:	learn: 0.2701518	total: 8.02s	remaining: 1m 57s
32:	learn: 0.2693122	total: 8.27s	remaining: 1m 56s
33:	learn: 0.2678570	total: 8.52s	remaining: 1m 56s
34:	learn: 0.2642684	total: 8.8s	remaining: 1m 56s
35:	learn: 0.2635854	total: 9.06s	remaining: 1m 56s
36:	learn: 0.2614152	total: 9.3s	remaining: 1m 56s
37:	learn: 0.2597499	total: 9.57s	remaining: 1m 56s
38:	learn: 0.2580417	total: 9.87s	remaining: 1m 56s
39:	learn: 0.2573312	total: 10.2s	remaining: 1m 56s
40:	learn: 0.2570810	total: 10.4s	remaining: 1m 56s
41:	learn: 0.2566699	total: 10.7s	remaining: 1m 56s
42:	learn: 0.2528142	total: 11s	remaining: 1m 56s
43:	learn: 0.2526336	total: 11.3s	remaining: 1m 56s
44:	learn: 0.2505344	total: 11.6s	remaining: 1m 56s
45:	learn: 0.2502855	total: 11.9s	remaining: 1m 57s
46:	learn: 0.2500068	total: 12.2s	remaining: 1m 57s
47:	learn: 0.2488145	total: 12.5s	remaining: 1m 57s
48:	learn: 0.2484547	total: 12.8s	remaining: 1m 57s

49:	learn: 0.2482333	total: 13.1s	remaining: 1m 57s
50:	learn: 0.2478461	total: 13.3s	remaining: 1m 57s
51:	learn: 0.2476086	total: 13.6s	remaining: 1m 57s
52:	learn: 0.2473747	total: 13.9s	remaining: 1m 57s
53:	learn: 0.2473177	total: 14.1s	remaining: 1m 56s
54:	learn: 0.2471333	total: 14.4s	remaining: 1m 56s
55:	learn: 0.2468117	total: 14.7s	remaining: 1m 56s
56:	learn: 0.2459387	total: 15s	remaining: 1m 56s
57:	learn: 0.2459328	total: 15.1s	remaining: 1m 54s
58:	learn: 0.2457827	total: 15.3s	remaining: 1m 54s
59:	learn: 0.2457238	total: 15.6s	remaining: 1m 54s
60:	learn: 0.2455716	total: 15.9s	remaining: 1m 54s
61:	learn: 0.2448141	total: 16.2s	remaining: 1m 54s
62:	learn: 0.2446071	total: 16.4s	remaining: 1m 54s
63:	learn: 0.2444340	total: 16.7s	remaining: 1m 54s
64:	learn: 0.2442634	total: 17s	remaining: 1m 53s
65:	learn: 0.2439934	total: 17.3s	remaining: 1m 53s
66:	learn: 0.2438545	total: 17.6s	remaining: 1m 53s
67:	learn: 0.2435432	total: 17.9s	remaining: 1m 53s
68:	learn: 0.2430920	total: 18.2s	remaining: 1m 53s
69:	learn: 0.2428806	total: 18.5s	remaining: 1m 53s
70:	learn: 0.2428329	total: 18.7s	remaining: 1m 53s
71:	learn: 0.2426467	total: 19s	remaining: 1m 52s
72:	learn: 0.2423607	total: 19.3s	remaining: 1m 52s
73:	learn: 0.2419496	total: 19.5s	remaining: 1m 52s
74:	learn: 0.2418890	total: 19.8s	remaining: 1m 52s
75:	learn: 0.2416746	total: 20.1s	remaining: 1m 51s
76:	learn: 0.2414360	total: 20.3s	remaining: 1m 51s
77:	learn: 0.2389885	total: 20.6s	remaining: 1m 51s
78:	learn: 0.2389054	total: 20.9s	remaining: 1m 51s
79:	learn: 0.2381963	total: 21.2s	remaining: 1m 51s
80:	learn: 0.2376076	total: 21.4s	remaining: 1m 50s
81:	learn: 0.2374827	total: 21.7s	remaining: 1m 50s
82:	learn: 0.2373929	total: 21.9s	remaining: 1m 50s
83:	learn: 0.2368784	total: 22.1s	remaining: 1m 49s
84:	learn: 0.2367884	total: 22.4s	remaining: 1m 49s
85:	learn: 0.2365893	total: 22.7s	remaining: 1m 49s
86:	learn: 0.2358293	total: 22.9s	remaining: 1m 48s
87:	learn: 0.2357492	total: 23.1s	remaining: 1m 48s
88:	learn: 0.2355676	total: 23.4s	remaining: 1m 48s
89:	learn: 0.2352992	total: 23.6s	remaining: 1m 47s
90:	learn: 0.2351729	total: 23.9s	remaining: 1m 47s
91:	learn: 0.2349132	total: 24.2s	remaining: 1m 47s
92:	learn: 0.2346879	total: 24.4s	remaining: 1m 46s
93:	learn: 0.2331239	total: 24.7s	remaining: 1m 46s
94:	learn: 0.2329997	total: 24.9s	remaining: 1m 46s
95:	learn: 0.2328666	total: 25.2s	remaining: 1m 46s
96:	learn: 0.2316712	total: 25.5s	remaining: 1m 45s

97:	learn: 0.2316311	total: 25.7s	remaining: 1m 45s
98:	learn: 0.2313551	total: 26s	remaining: 1m 45s
99:	learn: 0.2312976	total: 26.3s	remaining: 1m 45s
100:	learn: 0.2311357	total: 26.6s	remaining: 1m 44s
101:	learn: 0.2310309	total: 26.8s	remaining: 1m 44s
102:	learn: 0.2308983	total: 27.1s	remaining: 1m 44s
103:	learn: 0.2307796	total: 27.4s	remaining: 1m 44s
104:	learn: 0.2306207	total: 27.7s	remaining: 1m 44s
105:	learn: 0.2304634	total: 28s	remaining: 1m 44s
106:	learn: 0.2294943	total: 28.3s	remaining: 1m 43s
107:	learn: 0.2294393	total: 28.6s	remaining: 1m 43s
108:	learn: 0.2293289	total: 28.8s	remaining: 1m 43s
109:	learn: 0.2291648	total: 29.1s	remaining: 1m 43s
110:	learn: 0.2290713	total: 29.3s	remaining: 1m 42s
111:	learn: 0.2290098	total: 29.6s	remaining: 1m 42s
112:	learn: 0.2288270	total: 29.8s	remaining: 1m 42s
113:	learn: 0.2286241	total: 30.1s	remaining: 1m 41s
114:	learn: 0.2285659	total: 30.4s	remaining: 1m 41s
115:	learn: 0.2284214	total: 30.7s	remaining: 1m 41s
116:	learn: 0.2283329	total: 30.9s	remaining: 1m 41s
117:	learn: 0.2281506	total: 31.2s	remaining: 1m 41s
118:	learn: 0.2280384	total: 31.5s	remaining: 1m 40s
119:	learn: 0.2279202	total: 31.7s	remaining: 1m 40s
120:	learn: 0.2277638	total: 32s	remaining: 1m 40s
121:	learn: 0.2277258	total: 32.3s	remaining: 1m 39s
122:	learn: 0.2276372	total: 32.6s	remaining: 1m 39s
123:	learn: 0.2269248	total: 32.8s	remaining: 1m 39s
124:	learn: 0.2268435	total: 33.1s	remaining: 1m 39s
125:	learn: 0.2267248	total: 33.4s	remaining: 1m 39s
126:	learn: 0.2266073	total: 33.7s	remaining: 1m 38s
127:	learn: 0.2264065	total: 34s	remaining: 1m 38s
128:	learn: 0.2263639	total: 34.3s	remaining: 1m 38s
129:	learn: 0.2262877	total: 34.6s	remaining: 1m 38s
130:	learn: 0.2262120	total: 34.9s	remaining: 1m 38s
131:	learn: 0.2258786	total: 35.2s	remaining: 1m 37s
132:	learn: 0.2257658	total: 35.4s	remaining: 1m 37s
133:	learn: 0.2256149	total: 35.7s	remaining: 1m 37s
134:	learn: 0.2255600	total: 36s	remaining: 1m 37s
135:	learn: 0.2253147	total: 36.3s	remaining: 1m 37s
136:	learn: 0.2250921	total: 36.5s	remaining: 1m 36s
137:	learn: 0.2250258	total: 36.8s	remaining: 1m 36s
138:	learn: 0.2248906	total: 37.1s	remaining: 1m 36s
139:	learn: 0.2248411	total: 37.4s	remaining: 1m 36s
140:	learn: 0.2248090	total: 37.6s	remaining: 1m 35s
141:	learn: 0.2246840	total: 37.9s	remaining: 1m 35s
142:	learn: 0.2245726	total: 38.1s	remaining: 1m 35s
143:	learn: 0.2244760	total: 38.4s	remaining: 1m 34s
144:	learn: 0.2243970	total: 38.6s	remaining: 1m 34s

145:	learn: 0.2242911	total: 38.8s	remaining: 1m 34s
146:	learn: 0.2241329	total: 39.1s	remaining: 1m 33s
147:	learn: 0.2240470	total: 39.3s	remaining: 1m 33s
148:	learn: 0.2239188	total: 39.6s	remaining: 1m 33s
149:	learn: 0.2237973	total: 39.9s	remaining: 1m 33s
150:	learn: 0.2236903	total: 40.1s	remaining: 1m 32s
151:	learn: 0.2236038	total: 40.4s	remaining: 1m 32s
152:	learn: 0.2235648	total: 40.6s	remaining: 1m 32s
153:	learn: 0.2234317	total: 40.8s	remaining: 1m 31s
154:	learn: 0.2233634	total: 41.1s	remaining: 1m 31s
155:	learn: 0.2233301	total: 41.3s	remaining: 1m 31s
156:	learn: 0.2228103	total: 41.6s	remaining: 1m 30s
157:	learn: 0.2227082	total: 41.9s	remaining: 1m 30s
158:	learn: 0.2226488	total: 42.2s	remaining: 1m 30s
159:	learn: 0.2225168	total: 42.5s	remaining: 1m 30s
160:	learn: 0.2223819	total: 42.7s	remaining: 1m 29s
161:	learn: 0.2223316	total: 43s	remaining: 1m 29s
162:	learn: 0.2222300	total: 43.3s	remaining: 1m 29s
163:	learn: 0.2221545	total: 43.6s	remaining: 1m 29s
164:	learn: 0.2220466	total: 43.8s	remaining: 1m 28s
165:	learn: 0.2219935	total: 44.1s	remaining: 1m 28s
166:	learn: 0.2219638	total: 44.4s	remaining: 1m 28s
167:	learn: 0.2217712	total: 44.6s	remaining: 1m 28s
168:	learn: 0.2216053	total: 44.9s	remaining: 1m 28s
169:	learn: 0.2215441	total: 45.2s	remaining: 1m 27s
170:	learn: 0.2213693	total: 45.5s	remaining: 1m 27s
171:	learn: 0.2212658	total: 45.8s	remaining: 1m 27s
172:	learn: 0.2211702	total: 46s	remaining: 1m 27s
173:	learn: 0.2211053	total: 46.3s	remaining: 1m 26s
174:	learn: 0.2210422	total: 46.6s	remaining: 1m 26s
175:	learn: 0.2210065	total: 46.8s	remaining: 1m 26s
176:	learn: 0.2208476	total: 47.1s	remaining: 1m 25s
177:	learn: 0.2207405	total: 47.4s	remaining: 1m 25s
178:	learn: 0.2206773	total: 47.7s	remaining: 1m 25s
179:	learn: 0.2206486	total: 47.9s	remaining: 1m 25s
180:	learn: 0.2206303	total: 48.2s	remaining: 1m 24s
181:	learn: 0.2205185	total: 48.5s	remaining: 1m 24s
182:	learn: 0.2204689	total: 48.7s	remaining: 1m 24s
183:	learn: 0.2203656	total: 49s	remaining: 1m 24s
184:	learn: 0.2203446	total: 49.3s	remaining: 1m 23s
185:	learn: 0.2202800	total: 49.5s	remaining: 1m 23s
186:	learn: 0.2202335	total: 49.8s	remaining: 1m 23s
187:	learn: 0.2200399	total: 50.1s	remaining: 1m 23s
188:	learn: 0.2199905	total: 50.3s	remaining: 1m 22s
189:	learn: 0.2199048	total: 50.6s	remaining: 1m 22s
190:	learn: 0.2198142	total: 50.9s	remaining: 1m 22s
191:	learn: 0.2197670	total: 51.2s	remaining: 1m 22s
192:	learn: 0.2197393	total: 51.4s	remaining: 1m 21s

193:	learn: 0.2196834	total: 51.7s	remaining: 1m 21s
194:	learn: 0.2196300	total: 51.9s	remaining: 1m 21s
195:	learn: 0.2195653	total: 52.2s	remaining: 1m 20s
196:	learn: 0.2195392	total: 52.5s	remaining: 1m 20s
197:	learn: 0.2194832	total: 52.7s	remaining: 1m 20s
198:	learn: 0.2194207	total: 53s	remaining: 1m 20s
199:	learn: 0.2193269	total: 53.2s	remaining: 1m 19s
200:	learn: 0.2192413	total: 53.4s	remaining: 1m 19s
201:	learn: 0.2191659	total: 53.7s	remaining: 1m 19s
202:	learn: 0.2191186	total: 54s	remaining: 1m 18s
203:	learn: 0.2189707	total: 54.2s	remaining: 1m 18s
204:	learn: 0.2189475	total: 54.5s	remaining: 1m 18s
205:	learn: 0.2188551	total: 54.7s	remaining: 1m 18s
206:	learn: 0.2188118	total: 55s	remaining: 1m 17s
207:	learn: 0.2187636	total: 55.2s	remaining: 1m 17s
208:	learn: 0.2187239	total: 55.4s	remaining: 1m 17s
209:	learn: 0.2186995	total: 55.7s	remaining: 1m 16s
210:	learn: 0.2186213	total: 55.9s	remaining: 1m 16s
211:	learn: 0.2185256	total: 56.2s	remaining: 1m 16s
212:	learn: 0.2184595	total: 56.4s	remaining: 1m 16s
213:	learn: 0.2184056	total: 56.7s	remaining: 1m 15s
214:	learn: 0.2179842	total: 56.9s	remaining: 1m 15s
215:	learn: 0.2178839	total: 57.2s	remaining: 1m 15s
216:	learn: 0.2177731	total: 57.5s	remaining: 1m 14s
217:	learn: 0.2177270	total: 57.7s	remaining: 1m 14s
218:	learn: 0.2175897	total: 58s	remaining: 1m 14s
219:	learn: 0.2175290	total: 58.2s	remaining: 1m 14s
220:	learn: 0.2174867	total: 58.4s	remaining: 1m 13s
221:	learn: 0.2174068	total: 58.6s	remaining: 1m 13s
222:	learn: 0.2173433	total: 58.8s	remaining: 1m 13s
223:	learn: 0.2171751	total: 59s	remaining: 1m 12s
224:	learn: 0.2170967	total: 59.2s	remaining: 1m 12s
225:	learn: 0.2170826	total: 59.4s	remaining: 1m 12s
226:	learn: 0.2170258	total: 59.6s	remaining: 1m 11s
227:	learn: 0.2169884	total: 59.9s	remaining: 1m 11s
228:	learn: 0.2169451	total: 1m	remaining: 1m 11s
229:	learn: 0.2168120	total: 1m	remaining: 1m 10s
230:	learn: 0.2167708	total: 1m	remaining: 1m 10s
231:	learn: 0.2167291	total: 1m	remaining: 1m 10s
232:	learn: 0.2166658	total: 1m 1s	remaining: 1m 9s
233:	learn: 0.2166441	total: 1m 1s	remaining: 1m 9s
234:	learn: 0.2165809	total: 1m 1s	remaining: 1m 9s
235:	learn: 0.2165222	total: 1m 1s	remaining: 1m 9s
236:	learn: 0.2164251	total: 1m 2s	remaining: 1m 9s
237:	learn: 0.2163406	total: 1m 2s	remaining: 1m 8s
238:	learn: 0.2162820	total: 1m 2s	remaining: 1m 8s
239:	learn: 0.2161586	total: 1m 3s	remaining: 1m 8s
240:	learn: 0.2161108	total: 1m 3s	remaining: 1m 8s

241:	learn: 0.2158990	total: 1m 3s	remaining: 1m 7s
242:	learn: 0.2158452	total: 1m 3s	remaining: 1m 7s
243:	learn: 0.2157391	total: 1m 4s	remaining: 1m 7s
244:	learn: 0.2157220	total: 1m 4s	remaining: 1m 7s
245:	learn: 0.2156887	total: 1m 4s	remaining: 1m 6s
246:	learn: 0.2153462	total: 1m 5s	remaining: 1m 6s
247:	learn: 0.2152961	total: 1m 5s	remaining: 1m 6s
248:	learn: 0.2152602	total: 1m 5s	remaining: 1m 6s
249:	learn: 0.2152172	total: 1m 5s	remaining: 1m 5s
250:	learn: 0.2151827	total: 1m 6s	remaining: 1m 5s
251:	learn: 0.2151185	total: 1m 6s	remaining: 1m 5s
252:	learn: 0.2150385	total: 1m 6s	remaining: 1m 5s
253:	learn: 0.2150139	total: 1m 7s	remaining: 1m 4s
254:	learn: 0.2149663	total: 1m 7s	remaining: 1m 4s
255:	learn: 0.2147180	total: 1m 7s	remaining: 1m 4s
256:	learn: 0.2146868	total: 1m 7s	remaining: 1m 4s
257:	learn: 0.2146386	total: 1m 8s	remaining: 1m 3s
258:	learn: 0.2146030	total: 1m 8s	remaining: 1m 3s
259:	learn: 0.2145070	total: 1m 8s	remaining: 1m 3s
260:	learn: 0.2144874	total: 1m 8s	remaining: 1m 2s
261:	learn: 0.2144197	total: 1m 9s	remaining: 1m 2s
262:	learn: 0.2143351	total: 1m 9s	remaining: 1m 2s
263:	learn: 0.2142084	total: 1m 9s	remaining: 1m 2s
264:	learn: 0.2141583	total: 1m 9s	remaining: 1m 1s
265:	learn: 0.2140874	total: 1m 10s	remaining: 1m 1s
266:	learn: 0.2140024	total: 1m 10s	remaining: 1m 1s
267:	learn: 0.2139710	total: 1m 10s	remaining: 1m 1s
268:	learn: 0.2138767	total: 1m 10s	remaining: 1m
269:	learn: 0.2138192	total: 1m 10s	remaining: 1m
270:	learn: 0.2137539	total: 1m 11s	remaining: 1m
271:	learn: 0.2136597	total: 1m 11s	remaining: 59.9s
272:	learn: 0.2135401	total: 1m 11s	remaining: 59.6s
273:	learn: 0.2134861	total: 1m 11s	remaining: 59.4s
274:	learn: 0.2134290	total: 1m 12s	remaining: 59.1s
275:	learn: 0.2133594	total: 1m 12s	remaining: 58.8s
276:	learn: 0.2133481	total: 1m 12s	remaining: 58.5s
277:	learn: 0.2133391	total: 1m 12s	remaining: 58.3s
278:	learn: 0.2132830	total: 1m 13s	remaining: 58s
279:	learn: 0.2131418	total: 1m 13s	remaining: 57.7s
280:	learn: 0.2130551	total: 1m 13s	remaining: 57.5s
281:	learn: 0.2129303	total: 1m 13s	remaining: 57.2s
282:	learn: 0.2128493	total: 1m 14s	remaining: 56.9s
283:	learn: 0.2127613	total: 1m 14s	remaining: 56.6s
284:	learn: 0.2127250	total: 1m 14s	remaining: 56.2s
285:	learn: 0.2126599	total: 1m 14s	remaining: 55.9s
286:	learn: 0.2126259	total: 1m 14s	remaining: 55.6s
287:	learn: 0.2125725	total: 1m 15s	remaining: 55.3s
288:	learn: 0.2125122	total: 1m 15s	remaining: 55.1s

289:	learn: 0.2124491	total: 1m 15s	remaining: 54.7s
290:	learn: 0.2124252	total: 1m 15s	remaining: 54.4s
291:	learn: 0.2123676	total: 1m 15s	remaining: 54.1s
292:	learn: 0.2123498	total: 1m 16s	remaining: 53.8s
293:	learn: 0.2123005	total: 1m 16s	remaining: 53.6s
294:	learn: 0.2122623	total: 1m 16s	remaining: 53.3s
295:	learn: 0.2121645	total: 1m 16s	remaining: 53s
296:	learn: 0.2121159	total: 1m 17s	remaining: 52.8s
297:	learn: 0.2120517	total: 1m 17s	remaining: 52.6s
298:	learn: 0.2120023	total: 1m 17s	remaining: 52.3s
299:	learn: 0.2119526	total: 1m 18s	remaining: 52s
300:	learn: 0.2119268	total: 1m 18s	remaining: 51.8s
301:	learn: 0.2118720	total: 1m 18s	remaining: 51.5s
302:	learn: 0.2118350	total: 1m 18s	remaining: 51.3s
303:	learn: 0.2118013	total: 1m 19s	remaining: 51s
304:	learn: 0.2117561	total: 1m 19s	remaining: 50.8s
305:	learn: 0.2116820	total: 1m 19s	remaining: 50.5s
306:	learn: 0.2116245	total: 1m 20s	remaining: 50.3s
307:	learn: 0.2115739	total: 1m 20s	remaining: 50.1s
308:	learn: 0.2115255	total: 1m 20s	remaining: 49.8s
309:	learn: 0.2114817	total: 1m 20s	remaining: 49.6s
310:	learn: 0.2114681	total: 1m 21s	remaining: 49.3s
311:	learn: 0.2113653	total: 1m 21s	remaining: 49.1s
312:	learn: 0.2113348	total: 1m 21s	remaining: 48.8s
313:	learn: 0.2112708	total: 1m 21s	remaining: 48.5s
314:	learn: 0.2112350	total: 1m 22s	remaining: 48.3s
315:	learn: 0.2111786	total: 1m 22s	remaining: 48s
316:	learn: 0.2110974	total: 1m 22s	remaining: 47.8s
317:	learn: 0.2110260	total: 1m 23s	remaining: 47.5s
318:	learn: 0.2108928	total: 1m 23s	remaining: 47.3s
319:	learn: 0.2108520	total: 1m 23s	remaining: 47s
320:	learn: 0.2107923	total: 1m 23s	remaining: 46.7s
321:	learn: 0.2107541	total: 1m 24s	remaining: 46.5s
322:	learn: 0.2107294	total: 1m 24s	remaining: 46.2s
323:	learn: 0.2107119	total: 1m 24s	remaining: 45.9s
324:	learn: 0.2106905	total: 1m 24s	remaining: 45.7s
325:	learn: 0.2106374	total: 1m 25s	remaining: 45.4s
326:	learn: 0.2105110	total: 1m 25s	remaining: 45.1s
327:	learn: 0.2104407	total: 1m 25s	remaining: 44.9s
328:	learn: 0.2103930	total: 1m 25s	remaining: 44.6s
329:	learn: 0.2103278	total: 1m 26s	remaining: 44.3s
330:	learn: 0.2102727	total: 1m 26s	remaining: 44.1s
331:	learn: 0.2102040	total: 1m 26s	remaining: 43.8s
332:	learn: 0.2101195	total: 1m 26s	remaining: 43.5s
333:	learn: 0.2100104	total: 1m 27s	remaining: 43.3s
334:	learn: 0.2099384	total: 1m 27s	remaining: 43s
335:	learn: 0.2098865	total: 1m 27s	remaining: 42.7s
336:	learn: 0.2098719	total: 1m 27s	remaining: 42.5s

337:	learn: 0.2097876	total: 1m 28s	remaining: 42.2s
338:	learn: 0.2097631	total: 1m 28s	remaining: 41.9s
339:	learn: 0.2097316	total: 1m 28s	remaining: 41.7s
340:	learn: 0.2096477	total: 1m 28s	remaining: 41.4s
341:	learn: 0.2095747	total: 1m 29s	remaining: 41.2s
342:	learn: 0.2095474	total: 1m 29s	remaining: 40.9s
343:	learn: 0.2094101	total: 1m 29s	remaining: 40.6s
344:	learn: 0.2093577	total: 1m 29s	remaining: 40.4s
345:	learn: 0.2093157	total: 1m 30s	remaining: 40.1s
346:	learn: 0.2092478	total: 1m 30s	remaining: 39.9s
347:	learn: 0.2091681	total: 1m 30s	remaining: 39.6s
348:	learn: 0.2091107	total: 1m 30s	remaining: 39.3s
349:	learn: 0.2090903	total: 1m 31s	remaining: 39.1s
350:	learn: 0.2090437	total: 1m 31s	remaining: 38.8s
351:	learn: 0.2089669	total: 1m 31s	remaining: 38.6s
352:	learn: 0.2089250	total: 1m 31s	remaining: 38.3s
353:	learn: 0.2088879	total: 1m 32s	remaining: 38.1s
354:	learn: 0.2088406	total: 1m 32s	remaining: 37.8s
355:	learn: 0.2088157	total: 1m 32s	remaining: 37.6s
356:	learn: 0.2087881	total: 1m 33s	remaining: 37.3s
357:	learn: 0.2087423	total: 1m 33s	remaining: 37s
358:	learn: 0.2087256	total: 1m 33s	remaining: 36.8s
359:	learn: 0.2086847	total: 1m 33s	remaining: 36.5s
360:	learn: 0.2086480	total: 1m 34s	remaining: 36.3s
361:	learn: 0.2085835	total: 1m 34s	remaining: 36s
362:	learn: 0.2084995	total: 1m 34s	remaining: 35.8s
363:	learn: 0.2084435	total: 1m 35s	remaining: 35.5s
364:	learn: 0.2083862	total: 1m 35s	remaining: 35.2s
365:	learn: 0.2083092	total: 1m 35s	remaining: 35s
366:	learn: 0.2082355	total: 1m 35s	remaining: 34.7s
367:	learn: 0.2081894	total: 1m 36s	remaining: 34.5s
368:	learn: 0.2081629	total: 1m 36s	remaining: 34.2s
369:	learn: 0.2081280	total: 1m 36s	remaining: 33.9s
370:	learn: 0.2080793	total: 1m 36s	remaining: 33.7s
371:	learn: 0.2080126	total: 1m 37s	remaining: 33.4s
372:	learn: 0.2079735	total: 1m 37s	remaining: 33.2s
373:	learn: 0.2078726	total: 1m 37s	remaining: 32.9s
374:	learn: 0.2078291	total: 1m 37s	remaining: 32.7s
375:	learn: 0.2077877	total: 1m 38s	remaining: 32.4s
376:	learn: 0.2077740	total: 1m 38s	remaining: 32.1s
377:	learn: 0.2077234	total: 1m 38s	remaining: 31.9s
378:	learn: 0.2076798	total: 1m 39s	remaining: 31.6s
379:	learn: 0.2076409	total: 1m 39s	remaining: 31.4s
380:	learn: 0.2075657	total: 1m 39s	remaining: 31.1s
381:	learn: 0.2074506	total: 1m 39s	remaining: 30.8s
382:	learn: 0.2073896	total: 1m 40s	remaining: 30.6s
383:	learn: 0.2073473	total: 1m 40s	remaining: 30.3s
384:	learn: 0.2072065	total: 1m 40s	remaining: 30.1s

385:	learn: 0.2071644	total: 1m 40s	remaining: 29.8s
386:	learn: 0.2070727	total: 1m 41s	remaining: 29.5s
387:	learn: 0.2070173	total: 1m 41s	remaining: 29.3s
388:	learn: 0.2069800	total: 1m 41s	remaining: 29s
389:	learn: 0.2069560	total: 1m 41s	remaining: 28.8s
390:	learn: 0.2068751	total: 1m 42s	remaining: 28.5s
391:	learn: 0.2068511	total: 1m 42s	remaining: 28.2s
392:	learn: 0.2067669	total: 1m 42s	remaining: 28s
393:	learn: 0.2067207	total: 1m 42s	remaining: 27.7s
394:	learn: 0.2066969	total: 1m 43s	remaining: 27.4s
395:	learn: 0.2066533	total: 1m 43s	remaining: 27.2s
396:	learn: 0.2065911	total: 1m 43s	remaining: 26.9s
397:	learn: 0.2065647	total: 1m 43s	remaining: 26.6s
398:	learn: 0.2065431	total: 1m 44s	remaining: 26.4s
399:	learn: 0.2065144	total: 1m 44s	remaining: 26.1s
400:	learn: 0.2064503	total: 1m 44s	remaining: 25.8s
401:	learn: 0.2064044	total: 1m 44s	remaining: 25.6s
402:	learn: 0.2063845	total: 1m 45s	remaining: 25.3s
403:	learn: 0.2062959	total: 1m 45s	remaining: 25.1s
404:	learn: 0.2061658	total: 1m 45s	remaining: 24.8s
405:	learn: 0.2061029	total: 1m 45s	remaining: 24.5s
406:	learn: 0.2060411	total: 1m 46s	remaining: 24.3s
407:	learn: 0.2060234	total: 1m 46s	remaining: 24s
408:	learn: 0.2059622	total: 1m 46s	remaining: 23.8s
409:	learn: 0.2059264	total: 1m 47s	remaining: 23.5s
410:	learn: 0.2058875	total: 1m 47s	remaining: 23.2s
411:	learn: 0.2057458	total: 1m 47s	remaining: 23s
412:	learn: 0.2057039	total: 1m 47s	remaining: 22.7s
413:	learn: 0.2056402	total: 1m 48s	remaining: 22.5s
414:	learn: 0.2055851	total: 1m 48s	remaining: 22.2s
415:	learn: 0.2055588	total: 1m 48s	remaining: 22s
416:	learn: 0.2055156	total: 1m 49s	remaining: 21.7s
417:	learn: 0.2054782	total: 1m 49s	remaining: 21.4s
418:	learn: 0.2054619	total: 1m 49s	remaining: 21.2s
419:	learn: 0.2054000	total: 1m 49s	remaining: 20.9s
420:	learn: 0.2053628	total: 1m 50s	remaining: 20.7s
421:	learn: 0.2052740	total: 1m 50s	remaining: 20.4s
422:	learn: 0.2052247	total: 1m 50s	remaining: 20.1s
423:	learn: 0.2051698	total: 1m 50s	remaining: 19.9s
424:	learn: 0.2051371	total: 1m 51s	remaining: 19.6s
425:	learn: 0.2050905	total: 1m 51s	remaining: 19.4s
426:	learn: 0.2050347	total: 1m 51s	remaining: 19.1s
427:	learn: 0.2049701	total: 1m 51s	remaining: 18.8s
428:	learn: 0.2049411	total: 1m 52s	remaining: 18.6s
429:	learn: 0.2049057	total: 1m 52s	remaining: 18.3s
430:	learn: 0.2048088	total: 1m 52s	remaining: 18.1s
431:	learn: 0.2047589	total: 1m 53s	remaining: 17.8s
432:	learn: 0.2047211	total: 1m 53s	remaining: 17.5s

433:	learn: 0.2046664	total: 1m 53s	remaining: 17.3s
434:	learn: 0.2046040	total: 1m 53s	remaining: 17s
435:	learn: 0.2045756	total: 1m 54s	remaining: 16.8s
436:	learn: 0.2045277	total: 1m 54s	remaining: 16.5s
437:	learn: 0.2044988	total: 1m 54s	remaining: 16.3s
438:	learn: 0.2043860	total: 1m 55s	remaining: 16s
439:	learn: 0.2043606	total: 1m 55s	remaining: 15.7s
440:	learn: 0.2043121	total: 1m 55s	remaining: 15.5s
441:	learn: 0.2042476	total: 1m 55s	remaining: 15.2s
442:	learn: 0.2041932	total: 1m 56s	remaining: 14.9s
443:	learn: 0.2041618	total: 1m 56s	remaining: 14.7s
444:	learn: 0.2040938	total: 1m 56s	remaining: 14.4s
445:	learn: 0.2040697	total: 1m 56s	remaining: 14.2s
446:	learn: 0.2039138	total: 1m 57s	remaining: 13.9s
447:	learn: 0.2038552	total: 1m 57s	remaining: 13.6s
448:	learn: 0.2037629	total: 1m 57s	remaining: 13.4s
449:	learn: 0.2037331	total: 1m 57s	remaining: 13.1s
450:	learn: 0.2036196	total: 1m 58s	remaining: 12.8s
451:	learn: 0.2034944	total: 1m 58s	remaining: 12.6s
452:	learn: 0.2034352	total: 1m 58s	remaining: 12.3s
453:	learn: 0.2033740	total: 1m 58s	remaining: 12.1s
454:	learn: 0.2032945	total: 1m 59s	remaining: 11.8s
455:	learn: 0.2032319	total: 1m 59s	remaining: 11.5s
456:	learn: 0.2031830	total: 1m 59s	remaining: 11.3s
457:	learn: 0.2031321	total: 1m 59s	remaining: 11s
458:	learn: 0.2031006	total: 2m	remaining: 10.7s
459:	learn: 0.2030687	total: 2m	remaining: 10.5s
460:	learn: 0.2029764	total: 2m	remaining: 10.2s
461:	learn: 0.2029520	total: 2m	remaining: 9.94s
462:	learn: 0.2029301	total: 2m 1s	remaining: 9.68s
463:	learn: 0.2028869	total: 2m 1s	remaining: 9.41s
464:	learn: 0.2028327	total: 2m 1s	remaining: 9.15s
465:	learn: 0.2027871	total: 2m 1s	remaining: 8.89s
466:	learn: 0.2027544	total: 2m 2s	remaining: 8.63s
467:	learn: 0.2027041	total: 2m 2s	remaining: 8.37s
468:	learn: 0.2026931	total: 2m 2s	remaining: 8.11s
469:	learn: 0.2026734	total: 2m 2s	remaining: 7.85s
470:	learn: 0.2026404	total: 2m 3s	remaining: 7.59s
471:	learn: 0.2026013	total: 2m 3s	remaining: 7.33s
472:	learn: 0.2025801	total: 2m 3s	remaining: 7.06s
473:	learn: 0.2025640	total: 2m 4s	remaining: 6.8s
474:	learn: 0.2025414	total: 2m 4s	remaining: 6.54s
475:	learn: 0.2024882	total: 2m 4s	remaining: 6.28s
476:	learn: 0.2024552	total: 2m 4s	remaining: 6.02s
477:	learn: 0.2024009	total: 2m 5s	remaining: 5.76s
478:	learn: 0.2023739	total: 2m 5s	remaining: 5.5s
479:	learn: 0.2022790	total: 2m 5s	remaining: 5.24s
480:	learn: 0.2022526	total: 2m 5s	remaining: 4.98s

481:	learn: 0.2022207	total: 2m 6s	remaining: 4.71s
482:	learn: 0.2021796	total: 2m 6s	remaining: 4.45s
483:	learn: 0.2020905	total: 2m 6s	remaining: 4.19s
484:	learn: 0.2020422	total: 2m 7s	remaining: 3.93s
485:	learn: 0.2020043	total: 2m 7s	remaining: 3.67s
486:	learn: 0.2019762	total: 2m 7s	remaining: 3.4s
487:	learn: 0.2019388	total: 2m 7s	remaining: 3.14s
488:	learn: 0.2018967	total: 2m 8s	remaining: 2.88s
489:	learn: 0.2018424	total: 2m 8s	remaining: 2.62s
490:	learn: 0.2017880	total: 2m 8s	remaining: 2.36s
491:	learn: 0.2015895	total: 2m 8s	remaining: 2.1s
492:	learn: 0.2015257	total: 2m 9s	remaining: 1.83s
493:	learn: 0.2014832	total: 2m 9s	remaining: 1.57s
494:	learn: 0.2013934	total: 2m 9s	remaining: 1.31s
495:	learn: 0.2012606	total: 2m 10s	remaining: 1.05s
496:	learn: 0.2012303	total: 2m 10s	remaining: 786ms
497:	learn: 0.2011375	total: 2m 10s	remaining: 524ms
498:	learn: 0.2009991	total: 2m 10s	remaining: 262ms
499:	learn: 0.2009286	total: 2m 11s	remaining: 0us

Learning rate set to 0.174288

0:	learn: 0.9716258	total: 290ms	remaining: 2m 24s
1:	learn: 0.8884807	total: 492ms	remaining: 2m 2s
2:	learn: 0.8315846	total: 691ms	remaining: 1m 54s
3:	learn: 0.7887301	total: 889ms	remaining: 1m 50s
4:	learn: 0.7363409	total: 1.08s	remaining: 1m 46s
5:	learn: 0.6450091	total: 1.28s	remaining: 1m 45s
6:	learn: 0.5791642	total: 1.49s	remaining: 1m 44s
7:	learn: 0.5170829	total: 1.69s	remaining: 1m 44s
8:	learn: 0.4932440	total: 1.87s	remaining: 1m 42s
9:	learn: 0.4503546	total: 2.09s	remaining: 1m 42s
10:	learn: 0.4204499	total: 2.29s	remaining: 1m 42s
11:	learn: 0.3980078	total: 2.47s	remaining: 1m 40s
12:	learn: 0.3913473	total: 2.67s	remaining: 1m 39s
13:	learn: 0.3737271	total: 2.85s	remaining: 1m 39s
14:	learn: 0.3602331	total: 3.1s	remaining: 1m 40s
15:	learn: 0.3508858	total: 3.34s	remaining: 1m 41s
16:	learn: 0.3364727	total: 3.61s	remaining: 1m 42s
17:	learn: 0.3287254	total: 3.9s	remaining: 1m 44s
18:	learn: 0.3184633	total: 4.17s	remaining: 1m 45s
19:	learn: 0.3078584	total: 4.41s	remaining: 1m 45s
20:	learn: 0.2987461	total: 4.66s	remaining: 1m 46s
21:	learn: 0.2914065	total: 4.89s	remaining: 1m 46s
22:	learn: 0.2901171	total: 5.2s	remaining: 1m 47s
23:	learn: 0.2887159	total: 5.45s	remaining: 1m 48s
24:	learn: 0.2826272	total: 5.75s	remaining: 1m 49s
25:	learn: 0.2816232	total: 6.02s	remaining: 1m 49s
26:	learn: 0.2810137	total: 6.29s	remaining: 1m 50s
27:	learn: 0.2790395	total: 6.56s	remaining: 1m 50s

28:	learn: 0.2757956	total: 6.86s	remaining: 1m 51s
29:	learn: 0.2714867	total: 7.14s	remaining: 1m 51s
30:	learn: 0.2709084	total: 7.45s	remaining: 1m 52s
31:	learn: 0.2683122	total: 7.72s	remaining: 1m 52s
32:	learn: 0.2674948	total: 8s	remaining: 1m 53s
33:	learn: 0.2664540	total: 8.29s	remaining: 1m 53s
34:	learn: 0.2623099	total: 8.58s	remaining: 1m 53s
35:	learn: 0.2618797	total: 8.86s	remaining: 1m 54s
36:	learn: 0.2607470	total: 9.16s	remaining: 1m 54s
37:	learn: 0.2602702	total: 9.42s	remaining: 1m 54s
38:	learn: 0.2597391	total: 9.7s	remaining: 1m 54s
39:	learn: 0.2594310	total: 9.99s	remaining: 1m 54s
40:	learn: 0.2582539	total: 10.3s	remaining: 1m 54s
41:	learn: 0.2562647	total: 10.6s	remaining: 1m 55s
42:	learn: 0.2544392	total: 10.8s	remaining: 1m 55s
43:	learn: 0.2542712	total: 11.1s	remaining: 1m 55s
44:	learn: 0.2533070	total: 11.4s	remaining: 1m 54s
45:	learn: 0.2528969	total: 11.6s	remaining: 1m 54s
46:	learn: 0.2525500	total: 11.9s	remaining: 1m 54s
47:	learn: 0.2523560	total: 12.2s	remaining: 1m 55s
48:	learn: 0.2521935	total: 12.5s	remaining: 1m 54s
49:	learn: 0.2497388	total: 12.8s	remaining: 1m 54s
50:	learn: 0.2495861	total: 13s	remaining: 1m 54s
51:	learn: 0.2482156	total: 13.3s	remaining: 1m 54s
52:	learn: 0.2478668	total: 13.6s	remaining: 1m 54s
53:	learn: 0.2477343	total: 13.9s	remaining: 1m 54s
54:	learn: 0.2474383	total: 14.1s	remaining: 1m 54s
55:	learn: 0.2471745	total: 14.4s	remaining: 1m 54s
56:	learn: 0.2468548	total: 14.7s	remaining: 1m 54s
57:	learn: 0.2466558	total: 15s	remaining: 1m 54s
58:	learn: 0.2463813	total: 15.3s	remaining: 1m 54s
59:	learn: 0.2461853	total: 15.5s	remaining: 1m 54s
60:	learn: 0.2460425	total: 15.8s	remaining: 1m 53s
61:	learn: 0.2456452	total: 16.1s	remaining: 1m 53s
62:	learn: 0.2454197	total: 16.4s	remaining: 1m 53s
63:	learn: 0.2453150	total: 16.7s	remaining: 1m 53s
64:	learn: 0.2449313	total: 16.9s	remaining: 1m 53s
65:	learn: 0.2447160	total: 17.2s	remaining: 1m 52s
66:	learn: 0.2429405	total: 17.4s	remaining: 1m 52s
67:	learn: 0.2427783	total: 17.7s	remaining: 1m 52s
68:	learn: 0.2426372	total: 17.9s	remaining: 1m 51s
69:	learn: 0.2424157	total: 18.2s	remaining: 1m 51s
70:	learn: 0.2422301	total: 18.4s	remaining: 1m 51s
71:	learn: 0.2419200	total: 18.7s	remaining: 1m 51s
72:	learn: 0.2418263	total: 18.9s	remaining: 1m 50s
73:	learn: 0.2415982	total: 19.2s	remaining: 1m 50s
74:	learn: 0.2413007	total: 19.5s	remaining: 1m 50s
75:	learn: 0.2410928	total: 19.8s	remaining: 1m 50s

76:	learn: 0.2410131	total: 20s	remaining: 1m 49s
77:	learn: 0.2407527	total: 20.3s	remaining: 1m 49s
78:	learn: 0.2406760	total: 20.5s	remaining: 1m 49s
79:	learn: 0.2405499	total: 20.8s	remaining: 1m 49s
80:	learn: 0.2403310	total: 21.1s	remaining: 1m 48s
81:	learn: 0.2400845	total: 21.3s	remaining: 1m 48s
82:	learn: 0.2395520	total: 21.6s	remaining: 1m 48s
83:	learn: 0.2392718	total: 21.8s	remaining: 1m 48s
84:	learn: 0.2391932	total: 22.1s	remaining: 1m 47s
85:	learn: 0.2390905	total: 22.4s	remaining: 1m 47s
86:	learn: 0.2390016	total: 22.6s	remaining: 1m 47s
87:	learn: 0.2389333	total: 22.9s	remaining: 1m 47s
88:	learn: 0.2388215	total: 23.2s	remaining: 1m 47s
89:	learn: 0.2387036	total: 23.5s	remaining: 1m 46s
90:	learn: 0.2382011	total: 23.8s	remaining: 1m 46s
91:	learn: 0.2381424	total: 24s	remaining: 1m 46s
92:	learn: 0.2380425	total: 24.3s	remaining: 1m 46s
93:	learn: 0.2376235	total: 24.5s	remaining: 1m 45s
94:	learn: 0.2375607	total: 24.8s	remaining: 1m 45s
95:	learn: 0.2374678	total: 25s	remaining: 1m 45s
96:	learn: 0.2374119	total: 25.3s	remaining: 1m 45s
97:	learn: 0.2369356	total: 25.6s	remaining: 1m 44s
98:	learn: 0.2368745	total: 25.8s	remaining: 1m 44s
99:	learn: 0.2366938	total: 26.1s	remaining: 1m 44s
100:	learn: 0.2366476	total: 26.3s	remaining: 1m 44s
101:	learn: 0.2365214	total: 26.6s	remaining: 1m 43s
102:	learn: 0.2364312	total: 26.9s	remaining: 1m 43s
103:	learn: 0.2363249	total: 27.2s	remaining: 1m 43s
104:	learn: 0.2362158	total: 27.4s	remaining: 1m 43s
105:	learn: 0.2361589	total: 27.7s	remaining: 1m 43s
106:	learn: 0.2359796	total: 28s	remaining: 1m 42s
107:	learn: 0.2357831	total: 28.3s	remaining: 1m 42s
108:	learn: 0.2347955	total: 28.6s	remaining: 1m 42s
109:	learn: 0.2347038	total: 28.8s	remaining: 1m 42s
110:	learn: 0.2346392	total: 29.1s	remaining: 1m 41s
111:	learn: 0.2344838	total: 29.4s	remaining: 1m 41s
112:	learn: 0.2344206	total: 29.7s	remaining: 1m 41s
113:	learn: 0.2342094	total: 29.9s	remaining: 1m 41s
114:	learn: 0.2341249	total: 30.2s	remaining: 1m 41s
115:	learn: 0.2339818	total: 30.5s	remaining: 1m 40s
116:	learn: 0.2338606	total: 30.7s	remaining: 1m 40s
117:	learn: 0.2337475	total: 31s	remaining: 1m 40s
118:	learn: 0.2336971	total: 31.3s	remaining: 1m 40s
119:	learn: 0.2336424	total: 31.6s	remaining: 1m 39s
120:	learn: 0.2336140	total: 31.8s	remaining: 1m 39s
121:	learn: 0.2335554	total: 32.1s	remaining: 1m 39s
122:	learn: 0.2335137	total: 32.4s	remaining: 1m 39s
123:	learn: 0.2334731	total: 32.6s	remaining: 1m 38s

124:	learn: 0.2333287	total: 32.9s	remaining: 1m 38s
125:	learn: 0.2330158	total: 33.1s	remaining: 1m 38s
126:	learn: 0.2329964	total: 33.4s	remaining: 1m 38s
127:	learn: 0.2328977	total: 33.6s	remaining: 1m 37s
128:	learn: 0.2328156	total: 33.9s	remaining: 1m 37s
129:	learn: 0.2327793	total: 34.2s	remaining: 1m 37s
130:	learn: 0.2327456	total: 34.4s	remaining: 1m 36s
131:	learn: 0.2327253	total: 34.7s	remaining: 1m 36s
132:	learn: 0.2326148	total: 34.9s	remaining: 1m 36s
133:	learn: 0.2325520	total: 35.2s	remaining: 1m 36s
134:	learn: 0.2323429	total: 35.5s	remaining: 1m 35s
135:	learn: 0.2323147	total: 35.7s	remaining: 1m 35s
136:	learn: 0.2322969	total: 36s	remaining: 1m 35s
137:	learn: 0.2320509	total: 36.2s	remaining: 1m 35s
138:	learn: 0.2319703	total: 36.5s	remaining: 1m 34s
139:	learn: 0.2318005	total: 36.8s	remaining: 1m 34s
140:	learn: 0.2316528	total: 37s	remaining: 1m 34s
141:	learn: 0.2315364	total: 37.3s	remaining: 1m 33s
142:	learn: 0.2314120	total: 37.6s	remaining: 1m 33s
143:	learn: 0.2313842	total: 37.8s	remaining: 1m 33s
144:	learn: 0.2311375	total: 38.1s	remaining: 1m 33s
145:	learn: 0.2310989	total: 38.3s	remaining: 1m 32s
146:	learn: 0.2310538	total: 38.5s	remaining: 1m 32s
147:	learn: 0.2309243	total: 38.8s	remaining: 1m 32s
148:	learn: 0.2308588	total: 39.1s	remaining: 1m 32s
149:	learn: 0.2308182	total: 39.4s	remaining: 1m 31s
150:	learn: 0.2307975	total: 39.6s	remaining: 1m 31s
151:	learn: 0.2307404	total: 39.9s	remaining: 1m 31s
152:	learn: 0.2306197	total: 40.2s	remaining: 1m 31s
153:	learn: 0.2304617	total: 40.4s	remaining: 1m 30s
154:	learn: 0.2302841	total: 40.7s	remaining: 1m 30s
155:	learn: 0.2301840	total: 41s	remaining: 1m 30s
156:	learn: 0.2301499	total: 41.3s	remaining: 1m 30s
157:	learn: 0.2301191	total: 41.5s	remaining: 1m 29s
158:	learn: 0.2301042	total: 41.8s	remaining: 1m 29s
159:	learn: 0.2300438	total: 42s	remaining: 1m 29s
160:	learn: 0.2299912	total: 42.3s	remaining: 1m 29s
161:	learn: 0.2297708	total: 42.6s	remaining: 1m 28s
162:	learn: 0.2295813	total: 42.9s	remaining: 1m 28s
163:	learn: 0.2294973	total: 43.2s	remaining: 1m 28s
164:	learn: 0.2292801	total: 43.4s	remaining: 1m 28s
165:	learn: 0.2292247	total: 43.7s	remaining: 1m 28s
166:	learn: 0.2291280	total: 44s	remaining: 1m 27s
167:	learn: 0.2290598	total: 44.2s	remaining: 1m 27s
168:	learn: 0.2290444	total: 44.5s	remaining: 1m 27s
169:	learn: 0.2289751	total: 44.8s	remaining: 1m 26s
170:	learn: 0.2288884	total: 45.1s	remaining: 1m 26s
171:	learn: 0.2288173	total: 45.4s	remaining: 1m 26s

172:	learn: 0.2287581	total: 45.6s	remaining: 1m 26s
173:	learn: 0.2286393	total: 45.9s	remaining: 1m 26s
174:	learn: 0.2285679	total: 46.2s	remaining: 1m 25s
175:	learn: 0.2285492	total: 46.5s	remaining: 1m 25s
176:	learn: 0.2285183	total: 46.8s	remaining: 1m 25s
177:	learn: 0.2284011	total: 47s	remaining: 1m 25s
178:	learn: 0.2282741	total: 47.3s	remaining: 1m 24s
179:	learn: 0.2281662	total: 47.6s	remaining: 1m 24s
180:	learn: 0.2280779	total: 47.9s	remaining: 1m 24s
181:	learn: 0.2280029	total: 48.2s	remaining: 1m 24s
182:	learn: 0.2279272	total: 48.5s	remaining: 1m 23s
183:	learn: 0.2277913	total: 48.7s	remaining: 1m 23s
184:	learn: 0.2277558	total: 48.9s	remaining: 1m 23s
185:	learn: 0.2277043	total: 49.2s	remaining: 1m 22s
186:	learn: 0.2275861	total: 49.4s	remaining: 1m 22s
187:	learn: 0.2275542	total: 49.7s	remaining: 1m 22s
188:	learn: 0.2274578	total: 49.9s	remaining: 1m 22s
189:	learn: 0.2274335	total: 50.2s	remaining: 1m 21s
190:	learn: 0.2274176	total: 50.4s	remaining: 1m 21s
191:	learn: 0.2272516	total: 50.7s	remaining: 1m 21s
192:	learn: 0.2271429	total: 50.9s	remaining: 1m 20s
193:	learn: 0.2270964	total: 51.2s	remaining: 1m 20s
194:	learn: 0.2270034	total: 51.4s	remaining: 1m 20s
195:	learn: 0.2269478	total: 51.7s	remaining: 1m 20s
196:	learn: 0.2268485	total: 51.9s	remaining: 1m 19s
197:	learn: 0.2267139	total: 52.2s	remaining: 1m 19s
198:	learn: 0.2266563	total: 52.4s	remaining: 1m 19s
199:	learn: 0.2266014	total: 52.7s	remaining: 1m 18s
200:	learn: 0.2265845	total: 52.9s	remaining: 1m 18s
201:	learn: 0.2265510	total: 53.2s	remaining: 1m 18s
202:	learn: 0.2264195	total: 53.4s	remaining: 1m 18s
203:	learn: 0.2262735	total: 53.7s	remaining: 1m 17s
204:	learn: 0.2262313	total: 54s	remaining: 1m 17s
205:	learn: 0.2261743	total: 54.2s	remaining: 1m 17s
206:	learn: 0.2260752	total: 54.4s	remaining: 1m 17s
207:	learn: 0.2260083	total: 54.6s	remaining: 1m 16s
208:	learn: 0.2259489	total: 54.8s	remaining: 1m 16s
209:	learn: 0.2258934	total: 55s	remaining: 1m 15s
210:	learn: 0.2258410	total: 55.2s	remaining: 1m 15s
211:	learn: 0.2257852	total: 55.4s	remaining: 1m 15s
212:	learn: 0.2257318	total: 55.6s	remaining: 1m 14s
213:	learn: 0.2256029	total: 55.9s	remaining: 1m 14s
214:	learn: 0.2255326	total: 56.1s	remaining: 1m 14s
215:	learn: 0.2254742	total: 56.3s	remaining: 1m 13s
216:	learn: 0.2254280	total: 56.5s	remaining: 1m 13s
217:	learn: 0.2253432	total: 56.7s	remaining: 1m 13s
218:	learn: 0.2252609	total: 57s	remaining: 1m 13s
219:	learn: 0.2250966	total: 57.3s	remaining: 1m 12s

220:	learn: 0.2250555	total: 57.6s	remaining: 1m 12s
221:	learn: 0.2250155	total: 57.9s	remaining: 1m 12s
222:	learn: 0.2249146	total: 58.1s	remaining: 1m 12s
223:	learn: 0.2248406	total: 58.4s	remaining: 1m 11s
224:	learn: 0.2247723	total: 58.7s	remaining: 1m 11s
225:	learn: 0.2247533	total: 59s	remaining: 1m 11s
226:	learn: 0.2246788	total: 59.2s	remaining: 1m 11s
227:	learn: 0.2245761	total: 59.5s	remaining: 1m 11s
228:	learn: 0.2245141	total: 59.8s	remaining: 1m 10s
229:	learn: 0.2244602	total: 1m	remaining: 1m 10s
230:	learn: 0.2242728	total: 1m	remaining: 1m 10s
231:	learn: 0.2241427	total: 1m	remaining: 1m 10s
232:	learn: 0.2240574	total: 1m	remaining: 1m 9s
233:	learn: 0.2238720	total: 1m 1s	remaining: 1m 9s
234:	learn: 0.2238495	total: 1m 1s	remaining: 1m 9s
235:	learn: 0.2238043	total: 1m 1s	remaining: 1m 9s
236:	learn: 0.2237779	total: 1m 1s	remaining: 1m 8s
237:	learn: 0.2237431	total: 1m 2s	remaining: 1m 8s
238:	learn: 0.2236886	total: 1m 2s	remaining: 1m 8s
239:	learn: 0.2236525	total: 1m 2s	remaining: 1m 8s
240:	learn: 0.2235954	total: 1m 3s	remaining: 1m 7s
241:	learn: 0.2235652	total: 1m 3s	remaining: 1m 7s
242:	learn: 0.2234049	total: 1m 3s	remaining: 1m 7s
243:	learn: 0.2232809	total: 1m 3s	remaining: 1m 7s
244:	learn: 0.2231639	total: 1m 4s	remaining: 1m 6s
245:	learn: 0.2230804	total: 1m 4s	remaining: 1m 6s
246:	learn: 0.2230495	total: 1m 4s	remaining: 1m 6s
247:	learn: 0.2229832	total: 1m 4s	remaining: 1m 5s
248:	learn: 0.2229490	total: 1m 5s	remaining: 1m 5s
249:	learn: 0.2229283	total: 1m 5s	remaining: 1m 5s
250:	learn: 0.2228878	total: 1m 5s	remaining: 1m 5s
251:	learn: 0.2228217	total: 1m 5s	remaining: 1m 4s
252:	learn: 0.2227460	total: 1m 6s	remaining: 1m 4s
253:	learn: 0.2226885	total: 1m 6s	remaining: 1m 4s
254:	learn: 0.2226154	total: 1m 6s	remaining: 1m 4s
255:	learn: 0.2225714	total: 1m 6s	remaining: 1m 3s
256:	learn: 0.2224843	total: 1m 7s	remaining: 1m 3s
257:	learn: 0.2224578	total: 1m 7s	remaining: 1m 3s
258:	learn: 0.2224410	total: 1m 7s	remaining: 1m 3s
259:	learn: 0.2222880	total: 1m 7s	remaining: 1m 2s
260:	learn: 0.2221902	total: 1m 8s	remaining: 1m 2s
261:	learn: 0.2221527	total: 1m 8s	remaining: 1m 2s
262:	learn: 0.2221236	total: 1m 8s	remaining: 1m 1s
263:	learn: 0.2220480	total: 1m 8s	remaining: 1m 1s
264:	learn: 0.2219136	total: 1m 9s	remaining: 1m 1s
265:	learn: 0.2218065	total: 1m 9s	remaining: 1m 1s
266:	learn: 0.2217525	total: 1m 9s	remaining: 1m
267:	learn: 0.2217425	total: 1m 9s	remaining: 1m

268:	learn: 0.2216526	total: 1m 10s	remaining: 1m
269:	learn: 0.2216126	total: 1m 10s	remaining: 1m
270:	learn: 0.2215584	total: 1m 10s	remaining: 59.8s
271:	learn: 0.2214686	total: 1m 11s	remaining: 59.5s
272:	learn: 0.2214221	total: 1m 11s	remaining: 59.3s
273:	learn: 0.2213712	total: 1m 11s	remaining: 59s
274:	learn: 0.2212459	total: 1m 11s	remaining: 58.8s
275:	learn: 0.2211965	total: 1m 12s	remaining: 58.5s
276:	learn: 0.2211122	total: 1m 12s	remaining: 58.3s
277:	learn: 0.2210319	total: 1m 12s	remaining: 58s
278:	learn: 0.2209744	total: 1m 12s	remaining: 57.7s
279:	learn: 0.2208851	total: 1m 13s	remaining: 57.5s
280:	learn: 0.2208723	total: 1m 13s	remaining: 57.2s
281:	learn: 0.2208113	total: 1m 13s	remaining: 57s
282:	learn: 0.2206788	total: 1m 13s	remaining: 56.7s
283:	learn: 0.2205855	total: 1m 14s	remaining: 56.5s
284:	learn: 0.2205503	total: 1m 14s	remaining: 56.2s
285:	learn: 0.2205208	total: 1m 14s	remaining: 56s
286:	learn: 0.2205032	total: 1m 15s	remaining: 55.7s
287:	learn: 0.2203631	total: 1m 15s	remaining: 55.5s
288:	learn: 0.2202730	total: 1m 15s	remaining: 55.2s
289:	learn: 0.2201644	total: 1m 15s	remaining: 55s
290:	learn: 0.2200667	total: 1m 16s	remaining: 54.7s
291:	learn: 0.2200554	total: 1m 16s	remaining: 54.5s
292:	learn: 0.2199445	total: 1m 16s	remaining: 54.2s
293:	learn: 0.2198712	total: 1m 17s	remaining: 54s
294:	learn: 0.2196889	total: 1m 17s	remaining: 53.7s
295:	learn: 0.2196142	total: 1m 17s	remaining: 53.5s
296:	learn: 0.2195378	total: 1m 17s	remaining: 53.2s
297:	learn: 0.2194878	total: 1m 18s	remaining: 53s
298:	learn: 0.2194590	total: 1m 18s	remaining: 52.7s
299:	learn: 0.2193958	total: 1m 18s	remaining: 52.4s
300:	learn: 0.2193592	total: 1m 18s	remaining: 52.2s
301:	learn: 0.2192715	total: 1m 19s	remaining: 51.9s
302:	learn: 0.2190773	total: 1m 19s	remaining: 51.7s
303:	learn: 0.2190392	total: 1m 19s	remaining: 51.4s
304:	learn: 0.2189876	total: 1m 20s	remaining: 51.1s
305:	learn: 0.2189508	total: 1m 20s	remaining: 51s
306:	learn: 0.2189232	total: 1m 20s	remaining: 50.7s
307:	learn: 0.2188626	total: 1m 20s	remaining: 50.4s
308:	learn: 0.2188068	total: 1m 21s	remaining: 50.2s
309:	learn: 0.2187025	total: 1m 21s	remaining: 49.9s
310:	learn: 0.2185714	total: 1m 21s	remaining: 49.6s
311:	learn: 0.2185359	total: 1m 21s	remaining: 49.4s
312:	learn: 0.2184928	total: 1m 22s	remaining: 49.1s
313:	learn: 0.2184453	total: 1m 22s	remaining: 48.8s
314:	learn: 0.2184061	total: 1m 22s	remaining: 48.6s
315:	learn: 0.2183330	total: 1m 22s	remaining: 48.3s

316:	learn: 0.2183087	total: 1m 23s	remaining: 48s
317:	learn: 0.2182887	total: 1m 23s	remaining: 47.7s
318:	learn: 0.2181883	total: 1m 23s	remaining: 47.5s
319:	learn: 0.2181099	total: 1m 23s	remaining: 47.2s
320:	learn: 0.2180589	total: 1m 24s	remaining: 46.9s
321:	learn: 0.2180284	total: 1m 24s	remaining: 46.7s
322:	learn: 0.2179615	total: 1m 24s	remaining: 46.4s
323:	learn: 0.2178612	total: 1m 24s	remaining: 46.1s
324:	learn: 0.2177400	total: 1m 25s	remaining: 45.9s
325:	learn: 0.2176702	total: 1m 25s	remaining: 45.6s
326:	learn: 0.2176294	total: 1m 25s	remaining: 45.4s
327:	learn: 0.2175798	total: 1m 26s	remaining: 45.1s
328:	learn: 0.2175330	total: 1m 26s	remaining: 44.8s
329:	learn: 0.2173905	total: 1m 26s	remaining: 44.6s
330:	learn: 0.2173316	total: 1m 26s	remaining: 44.3s
331:	learn: 0.2172987	total: 1m 27s	remaining: 44.1s
332:	learn: 0.2172695	total: 1m 27s	remaining: 43.8s
333:	learn: 0.2172048	total: 1m 27s	remaining: 43.6s
334:	learn: 0.2171651	total: 1m 27s	remaining: 43.3s
335:	learn: 0.2171184	total: 1m 28s	remaining: 43.1s
336:	learn: 0.2171049	total: 1m 28s	remaining: 42.8s
337:	learn: 0.2170693	total: 1m 28s	remaining: 42.5s
338:	learn: 0.2170649	total: 1m 28s	remaining: 42.3s
339:	learn: 0.2169843	total: 1m 29s	remaining: 42s
340:	learn: 0.2169512	total: 1m 29s	remaining: 41.7s
341:	learn: 0.2169092	total: 1m 29s	remaining: 41.4s
342:	learn: 0.2168316	total: 1m 29s	remaining: 41.2s
343:	learn: 0.2167785	total: 1m 30s	remaining: 40.9s
344:	learn: 0.2166925	total: 1m 30s	remaining: 40.7s
345:	learn: 0.2166378	total: 1m 30s	remaining: 40.4s
346:	learn: 0.2165900	total: 1m 31s	remaining: 40.2s
347:	learn: 0.2165270	total: 1m 31s	remaining: 39.9s
348:	learn: 0.2165003	total: 1m 31s	remaining: 39.6s
349:	learn: 0.2164256	total: 1m 31s	remaining: 39.4s
350:	learn: 0.2163284	total: 1m 32s	remaining: 39.1s
351:	learn: 0.2162477	total: 1m 32s	remaining: 38.8s
352:	learn: 0.2161197	total: 1m 32s	remaining: 38.6s
353:	learn: 0.2160644	total: 1m 32s	remaining: 38.3s
354:	learn: 0.2159959	total: 1m 33s	remaining: 38.1s
355:	learn: 0.2159198	total: 1m 33s	remaining: 37.8s
356:	learn: 0.2158767	total: 1m 33s	remaining: 37.6s
357:	learn: 0.2158464	total: 1m 34s	remaining: 37.3s
358:	learn: 0.2157703	total: 1m 34s	remaining: 37.1s
359:	learn: 0.2156899	total: 1m 34s	remaining: 36.8s
360:	learn: 0.2156373	total: 1m 34s	remaining: 36.6s
361:	learn: 0.2155995	total: 1m 35s	remaining: 36.3s
362:	learn: 0.2155460	total: 1m 35s	remaining: 36s
363:	learn: 0.2154800	total: 1m 35s	remaining: 35.8s

364:	learn: 0.2154220	total: 1m 35s	remaining: 35.5s
365:	learn: 0.2153197	total: 1m 36s	remaining: 35.2s
366:	learn: 0.2152806	total: 1m 36s	remaining: 35s
367:	learn: 0.2152192	total: 1m 36s	remaining: 34.8s
368:	learn: 0.2151289	total: 1m 37s	remaining: 34.5s
369:	learn: 0.2150023	total: 1m 37s	remaining: 34.3s
370:	learn: 0.2149777	total: 1m 37s	remaining: 34s
371:	learn: 0.2148973	total: 1m 38s	remaining: 33.7s
372:	learn: 0.2148373	total: 1m 38s	remaining: 33.4s
373:	learn: 0.2148125	total: 1m 38s	remaining: 33.2s
374:	learn: 0.2146854	total: 1m 38s	remaining: 32.9s
375:	learn: 0.2146155	total: 1m 39s	remaining: 32.7s
376:	learn: 0.2145425	total: 1m 39s	remaining: 32.4s
377:	learn: 0.2144880	total: 1m 39s	remaining: 32.1s
378:	learn: 0.2144672	total: 1m 39s	remaining: 31.8s
379:	learn: 0.2143981	total: 1m 39s	remaining: 31.6s
380:	learn: 0.2143463	total: 1m 40s	remaining: 31.3s
381:	learn: 0.2143094	total: 1m 40s	remaining: 31s
382:	learn: 0.2142137	total: 1m 40s	remaining: 30.7s
383:	learn: 0.2141737	total: 1m 40s	remaining: 30.5s
384:	learn: 0.2140589	total: 1m 41s	remaining: 30.2s
385:	learn: 0.2139904	total: 1m 41s	remaining: 30s
386:	learn: 0.2139117	total: 1m 41s	remaining: 29.7s
387:	learn: 0.2138496	total: 1m 41s	remaining: 29.4s
388:	learn: 0.2137716	total: 1m 42s	remaining: 29.1s
389:	learn: 0.2137442	total: 1m 42s	remaining: 28.9s
390:	learn: 0.2136992	total: 1m 42s	remaining: 28.6s
391:	learn: 0.2136289	total: 1m 42s	remaining: 28.3s
392:	learn: 0.2135369	total: 1m 42s	remaining: 28s
393:	learn: 0.2135002	total: 1m 43s	remaining: 27.8s
394:	learn: 0.2134056	total: 1m 43s	remaining: 27.5s
395:	learn: 0.2133773	total: 1m 43s	remaining: 27.2s
396:	learn: 0.2133250	total: 1m 43s	remaining: 26.9s
397:	learn: 0.2133091	total: 1m 44s	remaining: 26.7s
398:	learn: 0.2131073	total: 1m 44s	remaining: 26.4s
399:	learn: 0.2130474	total: 1m 44s	remaining: 26.2s
400:	learn: 0.2129991	total: 1m 44s	remaining: 25.9s
401:	learn: 0.2128979	total: 1m 45s	remaining: 25.6s
402:	learn: 0.2128846	total: 1m 45s	remaining: 25.4s
403:	learn: 0.2128307	total: 1m 45s	remaining: 25.1s
404:	learn: 0.2127755	total: 1m 46s	remaining: 24.9s
405:	learn: 0.2126362	total: 1m 46s	remaining: 24.6s
406:	learn: 0.2125734	total: 1m 46s	remaining: 24.3s
407:	learn: 0.2124465	total: 1m 46s	remaining: 24.1s
408:	learn: 0.2124092	total: 1m 47s	remaining: 23.8s
409:	learn: 0.2123266	total: 1m 47s	remaining: 23.6s
410:	learn: 0.2122616	total: 1m 47s	remaining: 23.3s
411:	learn: 0.2121801	total: 1m 47s	remaining: 23.1s

412:	learn: 0.2121398	total: 1m 48s	remaining: 22.8s
413:	learn: 0.2120766	total: 1m 48s	remaining: 22.5s
414:	learn: 0.2120128	total: 1m 48s	remaining: 22.3s
415:	learn: 0.2118500	total: 1m 49s	remaining: 22s
416:	learn: 0.2118308	total: 1m 49s	remaining: 21.8s
417:	learn: 0.2118076	total: 1m 49s	remaining: 21.5s
418:	learn: 0.2117572	total: 1m 49s	remaining: 21.2s
419:	learn: 0.2117042	total: 1m 50s	remaining: 21s
420:	learn: 0.2116544	total: 1m 50s	remaining: 20.7s
421:	learn: 0.2116275	total: 1m 50s	remaining: 20.5s
422:	learn: 0.2116109	total: 1m 51s	remaining: 20.2s
423:	learn: 0.2115735	total: 1m 51s	remaining: 19.9s
424:	learn: 0.2115219	total: 1m 51s	remaining: 19.7s
425:	learn: 0.2113766	total: 1m 51s	remaining: 19.4s
426:	learn: 0.2112769	total: 1m 52s	remaining: 19.2s
427:	learn: 0.2112282	total: 1m 52s	remaining: 18.9s
428:	learn: 0.2111963	total: 1m 52s	remaining: 18.6s
429:	learn: 0.2110485	total: 1m 52s	remaining: 18.4s
430:	learn: 0.2110130	total: 1m 53s	remaining: 18.1s
431:	learn: 0.2109782	total: 1m 53s	remaining: 17.8s
432:	learn: 0.2109470	total: 1m 53s	remaining: 17.6s
433:	learn: 0.2109099	total: 1m 53s	remaining: 17.3s
434:	learn: 0.2108968	total: 1m 54s	remaining: 17.1s
435:	learn: 0.2107515	total: 1m 54s	remaining: 16.8s
436:	learn: 0.2106939	total: 1m 54s	remaining: 16.5s
437:	learn: 0.2106443	total: 1m 54s	remaining: 16.3s
438:	learn: 0.2105924	total: 1m 55s	remaining: 16s
439:	learn: 0.2104978	total: 1m 55s	remaining: 15.7s
440:	learn: 0.2104490	total: 1m 55s	remaining: 15.5s
441:	learn: 0.2103449	total: 1m 55s	remaining: 15.2s
442:	learn: 0.2103171	total: 1m 56s	remaining: 14.9s
443:	learn: 0.2102691	total: 1m 56s	remaining: 14.7s
444:	learn: 0.2102517	total: 1m 56s	remaining: 14.4s
445:	learn: 0.2102003	total: 1m 56s	remaining: 14.2s
446:	learn: 0.2101295	total: 1m 57s	remaining: 13.9s
447:	learn: 0.2099808	total: 1m 57s	remaining: 13.6s
448:	learn: 0.2099275	total: 1m 57s	remaining: 13.4s
449:	learn: 0.2099034	total: 1m 57s	remaining: 13.1s
450:	learn: 0.2098090	total: 1m 58s	remaining: 12.8s
451:	learn: 0.2097838	total: 1m 58s	remaining: 12.6s
452:	learn: 0.2097264	total: 1m 58s	remaining: 12.3s
453:	learn: 0.2096949	total: 1m 59s	remaining: 12.1s
454:	learn: 0.2096280	total: 1m 59s	remaining: 11.8s
455:	learn: 0.2095827	total: 1m 59s	remaining: 11.5s
456:	learn: 0.2095438	total: 1m 59s	remaining: 11.3s
457:	learn: 0.2095136	total: 2m	remaining: 11s
458:	learn: 0.2094498	total: 2m	remaining: 10.8s
459:	learn: 0.2094208	total: 2m	remaining: 10.5s

460:	learn: 0.2093777	total: 2m	remaining: 10.2s
461:	learn: 0.2093501	total: 2m 1s	remaining: 9.97s
462:	learn: 0.2093355	total: 2m 1s	remaining: 9.71s
463:	learn: 0.2092805	total: 2m 1s	remaining: 9.45s
464:	learn: 0.2091603	total: 2m 2s	remaining: 9.19s
465:	learn: 0.2091033	total: 2m 2s	remaining: 8.93s
466:	learn: 0.2090570	total: 2m 2s	remaining: 8.66s
467:	learn: 0.2089557	total: 2m 2s	remaining: 8.4s
468:	learn: 0.2088523	total: 2m 3s	remaining: 8.14s
469:	learn: 0.2088127	total: 2m 3s	remaining: 7.89s
470:	learn: 0.2087913	total: 2m 3s	remaining: 7.63s
471:	learn: 0.2086959	total: 2m 4s	remaining: 7.37s
472:	learn: 0.2086545	total: 2m 4s	remaining: 7.11s
473:	learn: 0.2086066	total: 2m 4s	remaining: 6.85s
474:	learn: 0.2085065	total: 2m 5s	remaining: 6.59s
475:	learn: 0.2084668	total: 2m 5s	remaining: 6.32s
476:	learn: 0.2083776	total: 2m 5s	remaining: 6.06s
477:	learn: 0.2083340	total: 2m 6s	remaining: 5.8s
478:	learn: 0.2082690	total: 2m 6s	remaining: 5.54s
479:	learn: 0.2082199	total: 2m 6s	remaining: 5.28s
480:	learn: 0.2081871	total: 2m 6s	remaining: 5.01s
481:	learn: 0.2081624	total: 2m 7s	remaining: 4.75s
482:	learn: 0.2081060	total: 2m 7s	remaining: 4.49s
483:	learn: 0.2080037	total: 2m 7s	remaining: 4.22s
484:	learn: 0.2079667	total: 2m 8s	remaining: 3.96s
485:	learn: 0.2079133	total: 2m 8s	remaining: 3.7s
486:	learn: 0.2078831	total: 2m 8s	remaining: 3.43s
487:	learn: 0.2078509	total: 2m 8s	remaining: 3.17s
488:	learn: 0.2077207	total: 2m 9s	remaining: 2.9s
489:	learn: 0.2075284	total: 2m 9s	remaining: 2.64s
490:	learn: 0.2074717	total: 2m 9s	remaining: 2.38s
491:	learn: 0.2073530	total: 2m 9s	remaining: 2.11s
492:	learn: 0.2073003	total: 2m 10s	remaining: 1.85s
493:	learn: 0.2072288	total: 2m 10s	remaining: 1.58s
494:	learn: 0.2072028	total: 2m 10s	remaining: 1.32s
495:	learn: 0.2071007	total: 2m 10s	remaining: 1.05s
496:	learn: 0.2069949	total: 2m 11s	remaining: 792ms
497:	learn: 0.2069824	total: 2m 11s	remaining: 528ms
498:	learn: 0.2069016	total: 2m 11s	remaining: 264ms
499:	learn: 0.2068482	total: 2m 11s	remaining: 0us

Learning rate set to 0.174288

0:	learn: 0.9722388	total: 254ms	remaining: 2m 6s
1:	learn: 0.8890007	total: 511ms	remaining: 2m 7s
2:	learn: 0.8310700	total: 767ms	remaining: 2m 6s
3:	learn: 0.7600255	total: 969ms	remaining: 2m
4:	learn: 0.6646822	total: 1.16s	remaining: 1m 55s
5:	learn: 0.5812795	total: 1.36s	remaining: 1m 52s
6:	learn: 0.5312801	total: 1.59s	remaining: 1m 52s

7:	learn: 0.5140644	total: 1.79s	remaining: 1m 50s
8:	learn: 0.5010026	total: 2s	remaining: 1m 49s
9:	learn: 0.4611280	total: 2.23s	remaining: 1m 49s
10:	learn: 0.4265423	total: 2.44s	remaining: 1m 48s
11:	learn: 0.4071684	total: 2.68s	remaining: 1m 48s
12:	learn: 0.3873383	total: 2.93s	remaining: 1m 49s
13:	learn: 0.3706327	total: 3.17s	remaining: 1m 50s
14:	learn: 0.3577086	total: 3.47s	remaining: 1m 52s
15:	learn: 0.3469085	total: 3.73s	remaining: 1m 52s
16:	learn: 0.3362290	total: 4.03s	remaining: 1m 54s
17:	learn: 0.3274259	total: 4.33s	remaining: 1m 55s
18:	learn: 0.3147365	total: 4.63s	remaining: 1m 57s
19:	learn: 0.3047181	total: 4.89s	remaining: 1m 57s
20:	learn: 0.2964068	total: 5.17s	remaining: 1m 57s
21:	learn: 0.2898338	total: 5.47s	remaining: 1m 58s
22:	learn: 0.2866325	total: 5.73s	remaining: 1m 58s
23:	learn: 0.2859082	total: 6s	remaining: 1m 58s
24:	learn: 0.2830893	total: 6.28s	remaining: 1m 59s
25:	learn: 0.2813176	total: 6.54s	remaining: 1m 59s
26:	learn: 0.2765331	total: 6.83s	remaining: 1m 59s
27:	learn: 0.2727824	total: 7.11s	remaining: 1m 59s
28:	learn: 0.2709535	total: 7.4s	remaining: 2m
29:	learn: 0.2697487	total: 7.69s	remaining: 2m
30:	learn: 0.2689832	total: 7.98s	remaining: 2m
31:	learn: 0.2678367	total: 8.29s	remaining: 2m 1s
32:	learn: 0.2658895	total: 8.59s	remaining: 2m 1s
33:	learn: 0.2641375	total: 8.89s	remaining: 2m 1s
34:	learn: 0.2636906	total: 9.14s	remaining: 2m 1s
35:	learn: 0.2627725	total: 9.39s	remaining: 2m 1s
36:	learn: 0.2623666	total: 9.67s	remaining: 2m 1s
37:	learn: 0.2618980	total: 9.94s	remaining: 2m
38:	learn: 0.2614386	total: 10.2s	remaining: 2m
39:	learn: 0.2600814	total: 10.5s	remaining: 2m
40:	learn: 0.2590003	total: 10.8s	remaining: 2m
41:	learn: 0.2585748	total: 11s	remaining: 2m
42:	learn: 0.2577814	total: 11.3s	remaining: 1m 59s
43:	learn: 0.2570676	total: 11.5s	remaining: 1m 59s
44:	learn: 0.2567575	total: 11.8s	remaining: 1m 59s
45:	learn: 0.2565059	total: 12s	remaining: 1m 58s
46:	learn: 0.2550556	total: 12.3s	remaining: 1m 58s
47:	learn: 0.2548163	total: 12.6s	remaining: 1m 58s
48:	learn: 0.2527508	total: 12.9s	remaining: 1m 58s
49:	learn: 0.2525847	total: 13.2s	remaining: 1m 58s
50:	learn: 0.2524544	total: 13.4s	remaining: 1m 58s
51:	learn: 0.2517150	total: 13.7s	remaining: 1m 57s
52:	learn: 0.2515394	total: 13.9s	remaining: 1m 57s
53:	learn: 0.2513082	total: 14.2s	remaining: 1m 56s
54:	learn: 0.2511155	total: 14.4s	remaining: 1m 56s

55:	learn: 0.2508851	total: 14.7s	remaining: 1m 56s
56:	learn: 0.2496982	total: 14.9s	remaining: 1m 55s
57:	learn: 0.2491862	total: 15.2s	remaining: 1m 55s
58:	learn: 0.2489718	total: 15.4s	remaining: 1m 55s
59:	learn: 0.2486967	total: 15.7s	remaining: 1m 55s
60:	learn: 0.2481317	total: 15.9s	remaining: 1m 54s
61:	learn: 0.2460485	total: 16.2s	remaining: 1m 54s
62:	learn: 0.2459200	total: 16.4s	remaining: 1m 54s
63:	learn: 0.2455318	total: 16.7s	remaining: 1m 53s
64:	learn: 0.2450875	total: 17s	remaining: 1m 53s
65:	learn: 0.2447170	total: 17.3s	remaining: 1m 53s
66:	learn: 0.2444493	total: 17.6s	remaining: 1m 53s
67:	learn: 0.2433146	total: 17.9s	remaining: 1m 53s
68:	learn: 0.2431856	total: 18.1s	remaining: 1m 53s
69:	learn: 0.2429576	total: 18.4s	remaining: 1m 53s
70:	learn: 0.2428219	total: 18.7s	remaining: 1m 53s
71:	learn: 0.2426166	total: 19s	remaining: 1m 52s
72:	learn: 0.2424478	total: 19.3s	remaining: 1m 52s
73:	learn: 0.2423978	total: 19.5s	remaining: 1m 52s
74:	learn: 0.2422098	total: 19.8s	remaining: 1m 52s
75:	learn: 0.2418027	total: 20.1s	remaining: 1m 52s
76:	learn: 0.2415109	total: 20.4s	remaining: 1m 51s
77:	learn: 0.2409503	total: 20.6s	remaining: 1m 51s
78:	learn: 0.2407028	total: 20.9s	remaining: 1m 51s
79:	learn: 0.2393136	total: 21.2s	remaining: 1m 51s
80:	learn: 0.2390972	total: 21.5s	remaining: 1m 51s
81:	learn: 0.2390732	total: 21.8s	remaining: 1m 51s
82:	learn: 0.2389939	total: 22s	remaining: 1m 50s
83:	learn: 0.2388525	total: 22.3s	remaining: 1m 50s
84:	learn: 0.2387837	total: 22.6s	remaining: 1m 50s
85:	learn: 0.2386341	total: 22.8s	remaining: 1m 49s
86:	learn: 0.2384480	total: 23.1s	remaining: 1m 49s
87:	learn: 0.2381584	total: 23.4s	remaining: 1m 49s
88:	learn: 0.2380367	total: 23.7s	remaining: 1m 49s
89:	learn: 0.2377970	total: 24s	remaining: 1m 49s
90:	learn: 0.2376427	total: 24.2s	remaining: 1m 48s
91:	learn: 0.2374369	total: 24.5s	remaining: 1m 48s
92:	learn: 0.2372363	total: 24.8s	remaining: 1m 48s
93:	learn: 0.2371341	total: 25.1s	remaining: 1m 48s
94:	learn: 0.2369828	total: 25.4s	remaining: 1m 48s
95:	learn: 0.2368639	total: 25.6s	remaining: 1m 47s
96:	learn: 0.2367710	total: 25.9s	remaining: 1m 47s
97:	learn: 0.2367506	total: 26.2s	remaining: 1m 47s
98:	learn: 0.2366401	total: 26.4s	remaining: 1m 47s
99:	learn: 0.2356228	total: 26.7s	remaining: 1m 46s
100:	learn: 0.2354191	total: 27s	remaining: 1m 46s
101:	learn: 0.2344784	total: 27.3s	remaining: 1m 46s
102:	learn: 0.2343290	total: 27.5s	remaining: 1m 46s

103:	learn: 0.2342085	total: 27.8s	remaining: 1m 45s
104:	learn: 0.2340882	total: 28s	remaining: 1m 45s
105:	learn: 0.2340263	total: 28.3s	remaining: 1m 45s
106:	learn: 0.2340110	total: 28.5s	remaining: 1m 44s
107:	learn: 0.2338993	total: 28.7s	remaining: 1m 44s
108:	learn: 0.2338215	total: 29s	remaining: 1m 43s
109:	learn: 0.2337032	total: 29.2s	remaining: 1m 43s
110:	learn: 0.2336216	total: 29.5s	remaining: 1m 43s
111:	learn: 0.2335187	total: 29.7s	remaining: 1m 42s
112:	learn: 0.2333703	total: 30s	remaining: 1m 42s
113:	learn: 0.2331048	total: 30.2s	remaining: 1m 42s
114:	learn: 0.2329994	total: 30.4s	remaining: 1m 41s
115:	learn: 0.2328168	total: 30.7s	remaining: 1m 41s
116:	learn: 0.2327479	total: 30.9s	remaining: 1m 41s
117:	learn: 0.2325460	total: 31.2s	remaining: 1m 40s
118:	learn: 0.2324076	total: 31.5s	remaining: 1m 40s
119:	learn: 0.2323209	total: 31.7s	remaining: 1m 40s
120:	learn: 0.2322728	total: 32s	remaining: 1m 40s
121:	learn: 0.2322472	total: 32.2s	remaining: 1m 39s
122:	learn: 0.2321859	total: 32.5s	remaining: 1m 39s
123:	learn: 0.2321119	total: 32.7s	remaining: 1m 39s
124:	learn: 0.2319553	total: 33s	remaining: 1m 38s
125:	learn: 0.2318099	total: 33.3s	remaining: 1m 38s
126:	learn: 0.2317596	total: 33.5s	remaining: 1m 38s
127:	learn: 0.2317065	total: 33.8s	remaining: 1m 38s
128:	learn: 0.2316108	total: 34.1s	remaining: 1m 38s
129:	learn: 0.2314177	total: 34.4s	remaining: 1m 37s
130:	learn: 0.2313213	total: 34.6s	remaining: 1m 37s
131:	learn: 0.2312650	total: 34.9s	remaining: 1m 37s
132:	learn: 0.2311162	total: 35.2s	remaining: 1m 37s
133:	learn: 0.2310771	total: 35.4s	remaining: 1m 36s
134:	learn: 0.2309311	total: 35.7s	remaining: 1m 36s
135:	learn: 0.2308511	total: 36s	remaining: 1m 36s
136:	learn: 0.2303292	total: 36.3s	remaining: 1m 36s
137:	learn: 0.2302788	total: 36.5s	remaining: 1m 35s
138:	learn: 0.2302306	total: 36.8s	remaining: 1m 35s
139:	learn: 0.2301473	total: 37.1s	remaining: 1m 35s
140:	learn: 0.2300413	total: 37.3s	remaining: 1m 35s
141:	learn: 0.2298890	total: 37.6s	remaining: 1m 34s
142:	learn: 0.2298253	total: 37.9s	remaining: 1m 34s
143:	learn: 0.2297841	total: 38.2s	remaining: 1m 34s
144:	learn: 0.2297212	total: 38.4s	remaining: 1m 34s
145:	learn: 0.2296618	total: 38.7s	remaining: 1m 33s
146:	learn: 0.2294782	total: 39s	remaining: 1m 33s
147:	learn: 0.2294283	total: 39.3s	remaining: 1m 33s
148:	learn: 0.2293539	total: 39.5s	remaining: 1m 33s
149:	learn: 0.2291730	total: 39.8s	remaining: 1m 32s
150:	learn: 0.2290880	total: 40.1s	remaining: 1m 32s

151:	learn: 0.2289957	total: 40.4s	remaining: 1m 32s
152:	learn: 0.2289417	total: 40.7s	remaining: 1m 32s
153:	learn: 0.2289288	total: 40.9s	remaining: 1m 31s
154:	learn: 0.2288367	total: 41.2s	remaining: 1m 31s
155:	learn: 0.2287993	total: 41.5s	remaining: 1m 31s
156:	learn: 0.2286957	total: 41.8s	remaining: 1m 31s
157:	learn: 0.2286026	total: 42s	remaining: 1m 30s
158:	learn: 0.2285653	total: 42.3s	remaining: 1m 30s
159:	learn: 0.2284745	total: 42.6s	remaining: 1m 30s
160:	learn: 0.2283288	total: 42.9s	remaining: 1m 30s
161:	learn: 0.2276412	total: 43.1s	remaining: 1m 30s
162:	learn: 0.2275657	total: 43.4s	remaining: 1m 29s
163:	learn: 0.2274373	total: 43.7s	remaining: 1m 29s
164:	learn: 0.2273865	total: 43.9s	remaining: 1m 29s
165:	learn: 0.2272420	total: 44.2s	remaining: 1m 28s
166:	learn: 0.2270346	total: 44.4s	remaining: 1m 28s
167:	learn: 0.2270167	total: 44.7s	remaining: 1m 28s
168:	learn: 0.2269291	total: 44.9s	remaining: 1m 27s
169:	learn: 0.2268907	total: 45.2s	remaining: 1m 27s
170:	learn: 0.2268223	total: 45.4s	remaining: 1m 27s
171:	learn: 0.2266800	total: 45.6s	remaining: 1m 27s
172:	learn: 0.2266188	total: 45.9s	remaining: 1m 26s
173:	learn: 0.2265105	total: 46.2s	remaining: 1m 26s
174:	learn: 0.2264668	total: 46.4s	remaining: 1m 26s
175:	learn: 0.2263833	total: 46.7s	remaining: 1m 25s
176:	learn: 0.2263392	total: 46.9s	remaining: 1m 25s
177:	learn: 0.2261706	total: 47.2s	remaining: 1m 25s
178:	learn: 0.2261013	total: 47.4s	remaining: 1m 25s
179:	learn: 0.2259830	total: 47.7s	remaining: 1m 24s
180:	learn: 0.2258896	total: 47.9s	remaining: 1m 24s
181:	learn: 0.2257915	total: 48.2s	remaining: 1m 24s
182:	learn: 0.2257126	total: 48.4s	remaining: 1m 23s
183:	learn: 0.2256361	total: 48.7s	remaining: 1m 23s
184:	learn: 0.2255375	total: 48.9s	remaining: 1m 23s
185:	learn: 0.2254712	total: 49.2s	remaining: 1m 23s
186:	learn: 0.2253698	total: 49.5s	remaining: 1m 22s
187:	learn: 0.2251285	total: 49.8s	remaining: 1m 22s
188:	learn: 0.2250447	total: 50s	remaining: 1m 22s
189:	learn: 0.2249860	total: 50.3s	remaining: 1m 22s
190:	learn: 0.2249228	total: 50.6s	remaining: 1m 21s
191:	learn: 0.2248950	total: 50.9s	remaining: 1m 21s
192:	learn: 0.2248351	total: 51.1s	remaining: 1m 21s
193:	learn: 0.2247806	total: 51.4s	remaining: 1m 21s
194:	learn: 0.2247028	total: 51.7s	remaining: 1m 20s
195:	learn: 0.2246735	total: 51.9s	remaining: 1m 20s
196:	learn: 0.2245296	total: 52.2s	remaining: 1m 20s
197:	learn: 0.2244577	total: 52.4s	remaining: 1m 19s
198:	learn: 0.2243706	total: 52.7s	remaining: 1m 19s

199:	learn: 0.2242560	total: 53s	remaining: 1m 19s
200:	learn: 0.2242489	total: 53.2s	remaining: 1m 19s
201:	learn: 0.2242112	total: 53.5s	remaining: 1m 18s
202:	learn: 0.2241257	total: 53.7s	remaining: 1m 18s
203:	learn: 0.2240828	total: 54s	remaining: 1m 18s
204:	learn: 0.2240215	total: 54.2s	remaining: 1m 18s
205:	learn: 0.2239362	total: 54.5s	remaining: 1m 17s
206:	learn: 0.2238110	total: 54.7s	remaining: 1m 17s
207:	learn: 0.2237896	total: 55s	remaining: 1m 17s
208:	learn: 0.2231677	total: 55.3s	remaining: 1m 16s
209:	learn: 0.2231028	total: 55.6s	remaining: 1m 16s
210:	learn: 0.2229959	total: 55.9s	remaining: 1m 16s
211:	learn: 0.2229671	total: 56.1s	remaining: 1m 16s
212:	learn: 0.2228598	total: 56.4s	remaining: 1m 15s
213:	learn: 0.2228273	total: 56.6s	remaining: 1m 15s
214:	learn: 0.2226936	total: 56.9s	remaining: 1m 15s
215:	learn: 0.2226075	total: 57.2s	remaining: 1m 15s
216:	learn: 0.2225398	total: 57.5s	remaining: 1m 14s
217:	learn: 0.2224763	total: 57.7s	remaining: 1m 14s
218:	learn: 0.2223276	total: 58s	remaining: 1m 14s
219:	learn: 0.2222574	total: 58.3s	remaining: 1m 14s
220:	learn: 0.2221841	total: 58.6s	remaining: 1m 13s
221:	learn: 0.2221023	total: 58.9s	remaining: 1m 13s
222:	learn: 0.2220268	total: 59.1s	remaining: 1m 13s
223:	learn: 0.2219732	total: 59.4s	remaining: 1m 13s
224:	learn: 0.2218744	total: 59.7s	remaining: 1m 12s
225:	learn: 0.2216275	total: 60s	remaining: 1m 12s
226:	learn: 0.2215478	total: 1m	remaining: 1m 12s
227:	learn: 0.2213761	total: 1m	remaining: 1m 12s
228:	learn: 0.2208594	total: 1m	remaining: 1m 11s
229:	learn: 0.2207385	total: 1m	remaining: 1m 11s
230:	learn: 0.2206164	total: 1m 1s	remaining: 1m 11s
231:	learn: 0.2205577	total: 1m 1s	remaining: 1m 10s
232:	learn: 0.2204393	total: 1m 1s	remaining: 1m 10s
233:	learn: 0.2203992	total: 1m 1s	remaining: 1m 10s
234:	learn: 0.2203344	total: 1m 2s	remaining: 1m 10s
235:	learn: 0.2202884	total: 1m 2s	remaining: 1m 9s
236:	learn: 0.2201789	total: 1m 2s	remaining: 1m 9s
237:	learn: 0.2201225	total: 1m 2s	remaining: 1m 9s
238:	learn: 0.2200783	total: 1m 3s	remaining: 1m 9s
239:	learn: 0.2200543	total: 1m 3s	remaining: 1m 8s
240:	learn: 0.2200005	total: 1m 3s	remaining: 1m 8s
241:	learn: 0.2198986	total: 1m 3s	remaining: 1m 8s
242:	learn: 0.2198313	total: 1m 4s	remaining: 1m 7s
243:	learn: 0.2197595	total: 1m 4s	remaining: 1m 7s
244:	learn: 0.2196566	total: 1m 4s	remaining: 1m 7s
245:	learn: 0.2195584	total: 1m 5s	remaining: 1m 7s
246:	learn: 0.2195350	total: 1m 5s	remaining: 1m 6s

247:	learn: 0.2192991	total: 1m 5s	remaining: 1m 6s
248:	learn: 0.2192871	total: 1m 5s	remaining: 1m 6s
249:	learn: 0.2192170	total: 1m 6s	remaining: 1m 6s
250:	learn: 0.2191694	total: 1m 6s	remaining: 1m 5s
251:	learn: 0.2190045	total: 1m 6s	remaining: 1m 5s
252:	learn: 0.2189340	total: 1m 6s	remaining: 1m 5s
253:	learn: 0.2188844	total: 1m 7s	remaining: 1m 5s
254:	learn: 0.2188714	total: 1m 7s	remaining: 1m 4s
255:	learn: 0.2187441	total: 1m 7s	remaining: 1m 4s
256:	learn: 0.2186929	total: 1m 8s	remaining: 1m 4s
257:	learn: 0.2185934	total: 1m 8s	remaining: 1m 4s
258:	learn: 0.2185561	total: 1m 8s	remaining: 1m 3s
259:	learn: 0.2185086	total: 1m 8s	remaining: 1m 3s
260:	learn: 0.2184293	total: 1m 9s	remaining: 1m 3s
261:	learn: 0.2183577	total: 1m 9s	remaining: 1m 3s
262:	learn: 0.2183188	total: 1m 9s	remaining: 1m 2s
263:	learn: 0.2181603	total: 1m 10s	remaining: 1m 2s
264:	learn: 0.2180980	total: 1m 10s	remaining: 1m 2s
265:	learn: 0.2180632	total: 1m 10s	remaining: 1m 2s
266:	learn: 0.2180014	total: 1m 11s	remaining: 1m 1s
267:	learn: 0.2179730	total: 1m 11s	remaining: 1m 1s
268:	learn: 0.2179205	total: 1m 11s	remaining: 1m 1s
269:	learn: 0.2178386	total: 1m 11s	remaining: 1m 1s
270:	learn: 0.2177408	total: 1m 12s	remaining: 1m
271:	learn: 0.2176877	total: 1m 12s	remaining: 1m
272:	learn: 0.2176648	total: 1m 12s	remaining: 1m
273:	learn: 0.2174550	total: 1m 12s	remaining: 1m
274:	learn: 0.2174292	total: 1m 13s	remaining: 59.9s
275:	learn: 0.2174076	total: 1m 13s	remaining: 59.6s
276:	learn: 0.2173709	total: 1m 13s	remaining: 59.4s
277:	learn: 0.2173451	total: 1m 14s	remaining: 59.1s
278:	learn: 0.2172347	total: 1m 14s	remaining: 58.9s
279:	learn: 0.2171858	total: 1m 14s	remaining: 58.6s
280:	learn: 0.2171410	total: 1m 14s	remaining: 58.4s
281:	learn: 0.2170776	total: 1m 15s	remaining: 58.1s
282:	learn: 0.2170473	total: 1m 15s	remaining: 57.9s
283:	learn: 0.2170199	total: 1m 15s	remaining: 57.6s
284:	learn: 0.2169243	total: 1m 16s	remaining: 57.4s
285:	learn: 0.2168993	total: 1m 16s	remaining: 57.1s
286:	learn: 0.2168782	total: 1m 16s	remaining: 56.9s
287:	learn: 0.2167885	total: 1m 16s	remaining: 56.6s
288:	learn: 0.2167348	total: 1m 17s	remaining: 56.3s
289:	learn: 0.2166817	total: 1m 17s	remaining: 56.1s
290:	learn: 0.2166269	total: 1m 17s	remaining: 55.8s
291:	learn: 0.2165529	total: 1m 17s	remaining: 55.5s
292:	learn: 0.2164512	total: 1m 18s	remaining: 55.3s
293:	learn: 0.2163936	total: 1m 18s	remaining: 55s
294:	learn: 0.2163353	total: 1m 18s	remaining: 54.7s

295:	learn: 0.2163208	total: 1m 19s	remaining: 54.5s
296:	learn: 0.2162687	total: 1m 19s	remaining: 54.2s
297:	learn: 0.2162451	total: 1m 19s	remaining: 53.9s
298:	learn: 0.2161979	total: 1m 19s	remaining: 53.7s
299:	learn: 0.2161536	total: 1m 20s	remaining: 53.4s
300:	learn: 0.2161121	total: 1m 20s	remaining: 53.1s
301:	learn: 0.2160773	total: 1m 20s	remaining: 52.9s
302:	learn: 0.2160566	total: 1m 20s	remaining: 52.6s
303:	learn: 0.2160222	total: 1m 21s	remaining: 52.4s
304:	learn: 0.2159755	total: 1m 21s	remaining: 52.1s
305:	learn: 0.2159290	total: 1m 21s	remaining: 51.9s
306:	learn: 0.2158398	total: 1m 22s	remaining: 51.6s
307:	learn: 0.2157472	total: 1m 22s	remaining: 51.4s
308:	learn: 0.2157353	total: 1m 22s	remaining: 51.1s
309:	learn: 0.2156852	total: 1m 22s	remaining: 50.9s
310:	learn: 0.2156468	total: 1m 23s	remaining: 50.6s
311:	learn: 0.2155716	total: 1m 23s	remaining: 50.3s
312:	learn: 0.2155273	total: 1m 23s	remaining: 50.1s
313:	learn: 0.2154331	total: 1m 24s	remaining: 49.8s
314:	learn: 0.2153804	total: 1m 24s	remaining: 49.5s
315:	learn: 0.2153276	total: 1m 24s	remaining: 49.3s
316:	learn: 0.2151726	total: 1m 24s	remaining: 49s
317:	learn: 0.2151228	total: 1m 25s	remaining: 48.7s
318:	learn: 0.2150904	total: 1m 25s	remaining: 48.5s
319:	learn: 0.2150627	total: 1m 25s	remaining: 48.2s
320:	learn: 0.2150283	total: 1m 25s	remaining: 47.9s
321:	learn: 0.2149932	total: 1m 26s	remaining: 47.7s
322:	learn: 0.2148963	total: 1m 26s	remaining: 47.4s
323:	learn: 0.2147953	total: 1m 26s	remaining: 47.1s
324:	learn: 0.2147699	total: 1m 27s	remaining: 46.9s
325:	learn: 0.2147242	total: 1m 27s	remaining: 46.6s
326:	learn: 0.2146034	total: 1m 27s	remaining: 46.4s
327:	learn: 0.2144518	total: 1m 27s	remaining: 46.1s
328:	learn: 0.2144218	total: 1m 28s	remaining: 45.8s
329:	learn: 0.2143265	total: 1m 28s	remaining: 45.6s
330:	learn: 0.2142789	total: 1m 28s	remaining: 45.3s
331:	learn: 0.2141999	total: 1m 29s	remaining: 45.1s
332:	learn: 0.2141286	total: 1m 29s	remaining: 44.8s
333:	learn: 0.2140833	total: 1m 29s	remaining: 44.6s
334:	learn: 0.2140412	total: 1m 29s	remaining: 44.3s
335:	learn: 0.2140029	total: 1m 30s	remaining: 44.1s
336:	learn: 0.2139010	total: 1m 30s	remaining: 43.8s
337:	learn: 0.2138456	total: 1m 30s	remaining: 43.5s
338:	learn: 0.2137672	total: 1m 31s	remaining: 43.3s
339:	learn: 0.2137186	total: 1m 31s	remaining: 43s
340:	learn: 0.2136396	total: 1m 31s	remaining: 42.8s
341:	learn: 0.2135227	total: 1m 31s	remaining: 42.5s
342:	learn: 0.2135064	total: 1m 32s	remaining: 42.2s

343:	learn: 0.2134547	total: 1m 32s	remaining: 42s
344:	learn: 0.2134042	total: 1m 32s	remaining: 41.7s
345:	learn: 0.2132889	total: 1m 33s	remaining: 41.5s
346:	learn: 0.2132190	total: 1m 33s	remaining: 41.2s
347:	learn: 0.2131970	total: 1m 33s	remaining: 40.9s
348:	learn: 0.2130991	total: 1m 33s	remaining: 40.6s
349:	learn: 0.2130485	total: 1m 34s	remaining: 40.4s
350:	learn: 0.2129325	total: 1m 34s	remaining: 40.1s
351:	learn: 0.2128963	total: 1m 34s	remaining: 39.9s
352:	learn: 0.2127979	total: 1m 35s	remaining: 39.6s
353:	learn: 0.2127687	total: 1m 35s	remaining: 39.3s
354:	learn: 0.2127130	total: 1m 35s	remaining: 39s
355:	learn: 0.2126166	total: 1m 35s	remaining: 38.8s
356:	learn: 0.2125974	total: 1m 36s	remaining: 38.5s
357:	learn: 0.2125878	total: 1m 36s	remaining: 38.2s
358:	learn: 0.2125057	total: 1m 36s	remaining: 38s
359:	learn: 0.2124803	total: 1m 36s	remaining: 37.7s
360:	learn: 0.2124039	total: 1m 37s	remaining: 37.5s
361:	learn: 0.2123153	total: 1m 37s	remaining: 37.2s
362:	learn: 0.2122621	total: 1m 37s	remaining: 36.9s
363:	learn: 0.2121011	total: 1m 38s	remaining: 36.7s
364:	learn: 0.2120341	total: 1m 38s	remaining: 36.4s
365:	learn: 0.2120177	total: 1m 38s	remaining: 36.2s
366:	learn: 0.2119212	total: 1m 39s	remaining: 35.9s
367:	learn: 0.2118028	total: 1m 39s	remaining: 35.6s
368:	learn: 0.2117403	total: 1m 39s	remaining: 35.4s
369:	learn: 0.2116965	total: 1m 39s	remaining: 35.1s
370:	learn: 0.2116284	total: 1m 40s	remaining: 34.9s
371:	learn: 0.2116085	total: 1m 40s	remaining: 34.6s
372:	learn: 0.2115901	total: 1m 40s	remaining: 34.3s
373:	learn: 0.2115698	total: 1m 41s	remaining: 34.1s
374:	learn: 0.2115433	total: 1m 41s	remaining: 33.8s
375:	learn: 0.2114548	total: 1m 41s	remaining: 33.6s
376:	learn: 0.2113705	total: 1m 42s	remaining: 33.3s
377:	learn: 0.2112977	total: 1m 42s	remaining: 33s
378:	learn: 0.2112514	total: 1m 42s	remaining: 32.8s
379:	learn: 0.2111965	total: 1m 42s	remaining: 32.5s
380:	learn: 0.2111215	total: 1m 43s	remaining: 32.2s
381:	learn: 0.2110567	total: 1m 43s	remaining: 32s
382:	learn: 0.2109906	total: 1m 43s	remaining: 31.7s
383:	learn: 0.2109303	total: 1m 44s	remaining: 31.4s
384:	learn: 0.2107595	total: 1m 44s	remaining: 31.2s
385:	learn: 0.2107199	total: 1m 44s	remaining: 30.9s
386:	learn: 0.2106956	total: 1m 44s	remaining: 30.7s
387:	learn: 0.2106667	total: 1m 45s	remaining: 30.4s
388:	learn: 0.2106203	total: 1m 45s	remaining: 30.1s
389:	learn: 0.2105358	total: 1m 45s	remaining: 29.9s
390:	learn: 0.2104334	total: 1m 46s	remaining: 29.6s

391:	learn: 0.2103782	total: 1m 46s	remaining: 29.3s
392:	learn: 0.2103044	total: 1m 46s	remaining: 29.1s
393:	learn: 0.2102575	total: 1m 47s	remaining: 28.8s
394:	learn: 0.2101849	total: 1m 47s	remaining: 28.5s
395:	learn: 0.2101349	total: 1m 47s	remaining: 28.3s
396:	learn: 0.2100402	total: 1m 47s	remaining: 28s
397:	learn: 0.2100066	total: 1m 48s	remaining: 27.7s
398:	learn: 0.2099536	total: 1m 48s	remaining: 27.5s
399:	learn: 0.2098497	total: 1m 48s	remaining: 27.2s
400:	learn: 0.2098238	total: 1m 49s	remaining: 26.9s
401:	learn: 0.2097681	total: 1m 49s	remaining: 26.7s
402:	learn: 0.2097268	total: 1m 49s	remaining: 26.4s
403:	learn: 0.2096873	total: 1m 49s	remaining: 26.1s
404:	learn: 0.2096590	total: 1m 50s	remaining: 25.8s
405:	learn: 0.2095632	total: 1m 50s	remaining: 25.6s
406:	learn: 0.2094725	total: 1m 50s	remaining: 25.3s
407:	learn: 0.2094079	total: 1m 50s	remaining: 25s
408:	learn: 0.2093369	total: 1m 51s	remaining: 24.7s
409:	learn: 0.2091740	total: 1m 51s	remaining: 24.5s
410:	learn: 0.2091247	total: 1m 51s	remaining: 24.2s
411:	learn: 0.2089983	total: 1m 52s	remaining: 24s
412:	learn: 0.2089495	total: 1m 52s	remaining: 23.7s
413:	learn: 0.2089161	total: 1m 52s	remaining: 23.4s
414:	learn: 0.2088715	total: 1m 53s	remaining: 23.2s
415:	learn: 0.2087741	total: 1m 53s	remaining: 22.9s
416:	learn: 0.2086872	total: 1m 53s	remaining: 22.6s
417:	learn: 0.2086459	total: 1m 53s	remaining: 22.4s
418:	learn: 0.2085630	total: 1m 54s	remaining: 22.1s
419:	learn: 0.2085150	total: 1m 54s	remaining: 21.8s
420:	learn: 0.2084559	total: 1m 54s	remaining: 21.6s
421:	learn: 0.2083157	total: 1m 55s	remaining: 21.3s
422:	learn: 0.2082621	total: 1m 55s	remaining: 21s
423:	learn: 0.2082508	total: 1m 55s	remaining: 20.8s
424:	learn: 0.2082095	total: 1m 56s	remaining: 20.5s
425:	learn: 0.2081684	total: 1m 56s	remaining: 20.2s
426:	learn: 0.2080948	total: 1m 56s	remaining: 20s
427:	learn: 0.2080794	total: 1m 57s	remaining: 19.7s
428:	learn: 0.2080157	total: 1m 57s	remaining: 19.4s
429:	learn: 0.2079750	total: 1m 57s	remaining: 19.1s
430:	learn: 0.2079095	total: 1m 57s	remaining: 18.9s
431:	learn: 0.2078801	total: 1m 58s	remaining: 18.6s
432:	learn: 0.2078372	total: 1m 58s	remaining: 18.3s
433:	learn: 0.2077710	total: 1m 58s	remaining: 18.1s
434:	learn: 0.2077300	total: 1m 59s	remaining: 17.8s
435:	learn: 0.2076863	total: 1m 59s	remaining: 17.5s
436:	learn: 0.2076267	total: 1m 59s	remaining: 17.3s
437:	learn: 0.2075618	total: 2m	remaining: 17s
438:	learn: 0.2074984	total: 2m	remaining: 16.7s

439:	learn: 0.2073861	total: 2m	remaining: 16.4s
440:	learn: 0.2073383	total: 2m	remaining: 16.2s
441:	learn: 0.2073019	total: 2m 1s	remaining: 15.9s
442:	learn: 0.2072138	total: 2m 1s	remaining: 15.6s
443:	learn: 0.2071335	total: 2m 1s	remaining: 15.4s
444:	learn: 0.2071060	total: 2m 2s	remaining: 15.1s
445:	learn: 0.2070363	total: 2m 2s	remaining: 14.8s
446:	learn: 0.2069627	total: 2m 2s	remaining: 14.6s
447:	learn: 0.2068988	total: 2m 3s	remaining: 14.3s
448:	learn: 0.2068451	total: 2m 3s	remaining: 14s
449:	learn: 0.2067047	total: 2m 3s	remaining: 13.7s
450:	learn: 0.2066836	total: 2m 3s	remaining: 13.5s
451:	learn: 0.2066435	total: 2m 4s	remaining: 13.2s
452:	learn: 0.2066041	total: 2m 4s	remaining: 12.9s
453:	learn: 0.2065418	total: 2m 4s	remaining: 12.6s
454:	learn: 0.2065067	total: 2m 5s	remaining: 12.4s
455:	learn: 0.2064824	total: 2m 5s	remaining: 12.1s
456:	learn: 0.2064465	total: 2m 5s	remaining: 11.8s
457:	learn: 0.2064195	total: 2m 5s	remaining: 11.5s
458:	learn: 0.2062903	total: 2m 6s	remaining: 11.3s
459:	learn: 0.2062164	total: 2m 6s	remaining: 11s
460:	learn: 0.2061743	total: 2m 6s	remaining: 10.7s
461:	learn: 0.2061038	total: 2m 7s	remaining: 10.5s
462:	learn: 0.2060622	total: 2m 7s	remaining: 10.2s
463:	learn: 0.2060091	total: 2m 7s	remaining: 9.9s
464:	learn: 0.2059309	total: 2m 7s	remaining: 9.63s
465:	learn: 0.2058361	total: 2m 8s	remaining: 9.36s
466:	learn: 0.2057555	total: 2m 8s	remaining: 9.08s
467:	learn: 0.2056566	total: 2m 8s	remaining: 8.8s
468:	learn: 0.2055922	total: 2m 9s	remaining: 8.53s
469:	learn: 0.2055059	total: 2m 9s	remaining: 8.26s
470:	learn: 0.2054669	total: 2m 9s	remaining: 7.98s
471:	learn: 0.2054204	total: 2m 9s	remaining: 7.7s
472:	learn: 0.2053650	total: 2m 10s	remaining: 7.43s
473:	learn: 0.2053077	total: 2m 10s	remaining: 7.15s
474:	learn: 0.2052199	total: 2m 10s	remaining: 6.88s
475:	learn: 0.2051909	total: 2m 10s	remaining: 6.6s
476:	learn: 0.2050465	total: 2m 11s	remaining: 6.33s
477:	learn: 0.2050263	total: 2m 11s	remaining: 6.05s
478:	learn: 0.2049907	total: 2m 11s	remaining: 5.78s
479:	learn: 0.2048843	total: 2m 12s	remaining: 5.5s
480:	learn: 0.2048610	total: 2m 12s	remaining: 5.23s
481:	learn: 0.2048148	total: 2m 12s	remaining: 4.95s
482:	learn: 0.2047441	total: 2m 12s	remaining: 4.68s
483:	learn: 0.2047344	total: 2m 13s	remaining: 4.4s
484:	learn: 0.2047104	total: 2m 13s	remaining: 4.13s
485:	learn: 0.2046656	total: 2m 13s	remaining: 3.85s
486:	learn: 0.2046280	total: 2m 13s	remaining: 3.57s

487:	learn: 0.2045074	total: 2m 14s	remaining: 3.3s
488:	learn: 0.2044797	total: 2m 14s	remaining: 3.02s
489:	learn: 0.2044365	total: 2m 14s	remaining: 2.75s
490:	learn: 0.2043750	total: 2m 15s	remaining: 2.48s
491:	learn: 0.2042566	total: 2m 15s	remaining: 2.2s
492:	learn: 0.2042403	total: 2m 15s	remaining: 1.93s
493:	learn: 0.2041970	total: 2m 15s	remaining: 1.65s
494:	learn: 0.2041908	total: 2m 16s	remaining: 1.38s
495:	learn: 0.2041313	total: 2m 16s	remaining: 1.1s
496:	learn: 0.2040989	total: 2m 16s	remaining: 826ms
497:	learn: 0.2040368	total: 2m 17s	remaining: 551ms
498:	learn: 0.2040169	total: 2m 17s	remaining: 275ms
499:	learn: 0.2040038	total: 2m 17s	remaining: 0us

Learning rate set to 0.174288

0:	learn: 0.9715545	total: 272ms	remaining: 2m 15s
1:	learn: 0.8881123	total: 532ms	remaining: 2m 12s
2:	learn: 0.8315271	total: 796ms	remaining: 2m 11s
3:	learn: 0.7884626	total: 1.06s	remaining: 2m 12s
4:	learn: 0.6751326	total: 1.35s	remaining: 2m 13s
5:	learn: 0.6489147	total: 1.53s	remaining: 2m 5s
6:	learn: 0.5799087	total: 1.73s	remaining: 2m 2s
7:	learn: 0.5292223	total: 1.92s	remaining: 1m 58s
8:	learn: 0.4877030	total: 2.14s	remaining: 1m 56s
9:	learn: 0.4576662	total: 2.33s	remaining: 1m 54s
10:	learn: 0.4315348	total: 2.53s	remaining: 1m 52s
11:	learn: 0.4109672	total: 2.73s	remaining: 1m 50s
12:	learn: 0.3840052	total: 2.94s	remaining: 1m 50s
13:	learn: 0.3631521	total: 3.14s	remaining: 1m 49s
14:	learn: 0.3463010	total: 3.31s	remaining: 1m 47s
15:	learn: 0.3321929	total: 3.51s	remaining: 1m 46s
16:	learn: 0.3294739	total: 3.71s	remaining: 1m 45s
17:	learn: 0.3188115	total: 3.93s	remaining: 1m 45s
18:	learn: 0.3095820	total: 4.22s	remaining: 1m 46s
19:	learn: 0.3075244	total: 4.5s	remaining: 1m 48s
20:	learn: 0.3050942	total: 4.75s	remaining: 1m 48s
21:	learn: 0.2976447	total: 5.01s	remaining: 1m 48s
22:	learn: 0.2962042	total: 5.25s	remaining: 1m 48s
23:	learn: 0.2899877	total: 5.51s	remaining: 1m 49s
24:	learn: 0.2850851	total: 5.77s	remaining: 1m 49s
25:	learn: 0.2831215	total: 6.07s	remaining: 1m 50s
26:	learn: 0.2822026	total: 6.34s	remaining: 1m 51s
27:	learn: 0.2774651	total: 6.62s	remaining: 1m 51s
28:	learn: 0.2764718	total: 6.9s	remaining: 1m 52s
29:	learn: 0.2726791	total: 7.19s	remaining: 1m 52s
30:	learn: 0.2719736	total: 7.48s	remaining: 1m 53s
31:	learn: 0.2701826	total: 7.75s	remaining: 1m 53s
32:	learn: 0.2695649	total: 8.02s	remaining: 1m 53s
33:	learn: 0.2690901	total: 8.3s	remaining: 1m 53s

34:	learn: 0.2685861	total: 8.6s	remaining: 1m 54s
35:	learn: 0.2671735	total: 8.88s	remaining: 1m 54s
36:	learn: 0.2653546	total: 9.16s	remaining: 1m 54s
37:	learn: 0.2650820	total: 9.42s	remaining: 1m 54s
38:	learn: 0.2644478	total: 9.69s	remaining: 1m 54s
39:	learn: 0.2639687	total: 9.97s	remaining: 1m 54s
40:	learn: 0.2637832	total: 10.3s	remaining: 1m 54s
41:	learn: 0.2634852	total: 10.6s	remaining: 1m 55s
42:	learn: 0.2604922	total: 10.8s	remaining: 1m 55s
43:	learn: 0.2599404	total: 11.1s	remaining: 1m 55s
44:	learn: 0.2596981	total: 11.4s	remaining: 1m 55s
45:	learn: 0.2593029	total: 11.7s	remaining: 1m 55s
46:	learn: 0.2589143	total: 12s	remaining: 1m 55s
47:	learn: 0.2579899	total: 12.3s	remaining: 1m 55s
48:	learn: 0.2558052	total: 12.6s	remaining: 1m 55s
49:	learn: 0.2547720	total: 12.8s	remaining: 1m 55s
50:	learn: 0.2525329	total: 13.1s	remaining: 1m 55s
51:	learn: 0.2517107	total: 13.4s	remaining: 1m 55s
52:	learn: 0.2515419	total: 13.7s	remaining: 1m 55s
53:	learn: 0.2492966	total: 13.9s	remaining: 1m 54s
54:	learn: 0.2489006	total: 14.2s	remaining: 1m 55s
55:	learn: 0.2486398	total: 14.4s	remaining: 1m 54s
56:	learn: 0.2480143	total: 14.7s	remaining: 1m 54s
57:	learn: 0.2477830	total: 15s	remaining: 1m 54s
58:	learn: 0.2476908	total: 15.3s	remaining: 1m 54s
59:	learn: 0.2468251	total: 15.6s	remaining: 1m 54s
60:	learn: 0.2464074	total: 15.9s	remaining: 1m 54s
61:	learn: 0.2462996	total: 16.1s	remaining: 1m 54s
62:	learn: 0.2460868	total: 16.4s	remaining: 1m 53s
63:	learn: 0.2457604	total: 16.7s	remaining: 1m 53s
64:	learn: 0.2456634	total: 17s	remaining: 1m 53s
65:	learn: 0.2454470	total: 17.2s	remaining: 1m 53s
66:	learn: 0.2452328	total: 17.5s	remaining: 1m 52s
67:	learn: 0.2430183	total: 17.7s	remaining: 1m 52s
68:	learn: 0.2429112	total: 18s	remaining: 1m 52s
69:	learn: 0.2426445	total: 18.2s	remaining: 1m 51s
70:	learn: 0.2424610	total: 18.5s	remaining: 1m 51s
71:	learn: 0.2423774	total: 18.8s	remaining: 1m 51s
72:	learn: 0.2415750	total: 19s	remaining: 1m 51s
73:	learn: 0.2403114	total: 19.3s	remaining: 1m 50s
74:	learn: 0.2400472	total: 19.5s	remaining: 1m 50s
75:	learn: 0.2399333	total: 19.8s	remaining: 1m 50s
76:	learn: 0.2387015	total: 20s	remaining: 1m 49s
77:	learn: 0.2380947	total: 20.3s	remaining: 1m 49s
78:	learn: 0.2379287	total: 20.5s	remaining: 1m 49s
79:	learn: 0.2373401	total: 20.8s	remaining: 1m 49s
80:	learn: 0.2372307	total: 21s	remaining: 1m 48s
81:	learn: 0.2371823	total: 21.3s	remaining: 1m 48s

82:	learn: 0.2370562	total: 21.5s	remaining: 1m 48s
83:	learn: 0.2370111	total: 21.8s	remaining: 1m 47s
84:	learn: 0.2369630	total: 22s	remaining: 1m 47s
85:	learn: 0.2367702	total: 22.3s	remaining: 1m 47s
86:	learn: 0.2365449	total: 22.6s	remaining: 1m 47s
87:	learn: 0.2363635	total: 22.9s	remaining: 1m 47s
88:	learn: 0.2362794	total: 23.1s	remaining: 1m 46s
89:	learn: 0.2361026	total: 23.4s	remaining: 1m 46s
90:	learn: 0.2360390	total: 23.6s	remaining: 1m 46s
91:	learn: 0.2359051	total: 23.9s	remaining: 1m 46s
92:	learn: 0.2358661	total: 24.2s	remaining: 1m 45s
93:	learn: 0.2357015	total: 24.5s	remaining: 1m 45s
94:	learn: 0.2355582	total: 24.8s	remaining: 1m 45s
95:	learn: 0.2354691	total: 25.1s	remaining: 1m 45s
96:	learn: 0.2353420	total: 25.4s	remaining: 1m 45s
97:	learn: 0.2352285	total: 25.7s	remaining: 1m 45s
98:	learn: 0.2351959	total: 25.9s	remaining: 1m 45s
99:	learn: 0.2350304	total: 26.2s	remaining: 1m 44s
100:	learn: 0.2344429	total: 26.5s	remaining: 1m 44s
101:	learn: 0.2343981	total: 26.8s	remaining: 1m 44s
102:	learn: 0.2342408	total: 27.1s	remaining: 1m 44s
103:	learn: 0.2341511	total: 27.4s	remaining: 1m 44s
104:	learn: 0.2340032	total: 27.7s	remaining: 1m 44s
105:	learn: 0.2338768	total: 27.9s	remaining: 1m 43s
106:	learn: 0.2337773	total: 28.2s	remaining: 1m 43s
107:	learn: 0.2336272	total: 28.5s	remaining: 1m 43s
108:	learn: 0.2335400	total: 28.8s	remaining: 1m 43s
109:	learn: 0.2334030	total: 29s	remaining: 1m 42s
110:	learn: 0.2331797	total: 29.3s	remaining: 1m 42s
111:	learn: 0.2331495	total: 29.5s	remaining: 1m 42s
112:	learn: 0.2330518	total: 29.8s	remaining: 1m 41s
113:	learn: 0.2329109	total: 30.1s	remaining: 1m 41s
114:	learn: 0.2328597	total: 30.4s	remaining: 1m 41s
115:	learn: 0.2327459	total: 30.6s	remaining: 1m 41s
116:	learn: 0.2325840	total: 30.9s	remaining: 1m 41s
117:	learn: 0.2324936	total: 31.2s	remaining: 1m 40s
118:	learn: 0.2323730	total: 31.5s	remaining: 1m 40s
119:	learn: 0.2323226	total: 31.7s	remaining: 1m 40s
120:	learn: 0.2320694	total: 32s	remaining: 1m 40s
121:	learn: 0.2318773	total: 32.3s	remaining: 1m 39s
122:	learn: 0.2314392	total: 32.6s	remaining: 1m 39s
123:	learn: 0.2313327	total: 32.9s	remaining: 1m 39s
124:	learn: 0.2311731	total: 33.1s	remaining: 1m 39s
125:	learn: 0.2311504	total: 33.4s	remaining: 1m 38s
126:	learn: 0.2311046	total: 33.6s	remaining: 1m 38s
127:	learn: 0.2310456	total: 33.9s	remaining: 1m 38s
128:	learn: 0.2306193	total: 34.1s	remaining: 1m 38s
129:	learn: 0.2304744	total: 34.4s	remaining: 1m 37s

130:	learn: 0.2304441	total: 34.6s	remaining: 1m 37s
131:	learn: 0.2303793	total: 34.9s	remaining: 1m 37s
132:	learn: 0.2303088	total: 35.2s	remaining: 1m 37s
133:	learn: 0.2301789	total: 35.4s	remaining: 1m 36s
134:	learn: 0.2301368	total: 35.6s	remaining: 1m 36s
135:	learn: 0.2299668	total: 35.9s	remaining: 1m 36s
136:	learn: 0.2298718	total: 36.1s	remaining: 1m 35s
137:	learn: 0.2297972	total: 36.4s	remaining: 1m 35s
138:	learn: 0.2297527	total: 36.6s	remaining: 1m 35s
139:	learn: 0.2296334	total: 36.9s	remaining: 1m 34s
140:	learn: 0.2295109	total: 37.1s	remaining: 1m 34s
141:	learn: 0.2294420	total: 37.3s	remaining: 1m 34s
142:	learn: 0.2292652	total: 37.6s	remaining: 1m 33s
143:	learn: 0.2292167	total: 37.8s	remaining: 1m 33s
144:	learn: 0.2291037	total: 38.1s	remaining: 1m 33s
145:	learn: 0.2290544	total: 38.3s	remaining: 1m 32s
146:	learn: 0.2290054	total: 38.6s	remaining: 1m 32s
147:	learn: 0.2288822	total: 38.9s	remaining: 1m 32s
148:	learn: 0.2287776	total: 39.1s	remaining: 1m 32s
149:	learn: 0.2286318	total: 39.4s	remaining: 1m 31s
150:	learn: 0.2285902	total: 39.7s	remaining: 1m 31s
151:	learn: 0.2285299	total: 40s	remaining: 1m 31s
152:	learn: 0.2279676	total: 40.3s	remaining: 1m 31s
153:	learn: 0.2277873	total: 40.5s	remaining: 1m 31s
154:	learn: 0.2276939	total: 40.8s	remaining: 1m 30s
155:	learn: 0.2276724	total: 41.1s	remaining: 1m 30s
156:	learn: 0.2273247	total: 41.4s	remaining: 1m 30s
157:	learn: 0.2272146	total: 41.7s	remaining: 1m 30s
158:	learn: 0.2271693	total: 42s	remaining: 1m 29s
159:	learn: 0.2270993	total: 42.2s	remaining: 1m 29s
160:	learn: 0.2270061	total: 42.5s	remaining: 1m 29s
161:	learn: 0.2268950	total: 42.7s	remaining: 1m 29s
162:	learn: 0.2268060	total: 43s	remaining: 1m 28s
163:	learn: 0.2267485	total: 43.3s	remaining: 1m 28s
164:	learn: 0.2266932	total: 43.6s	remaining: 1m 28s
165:	learn: 0.2266362	total: 43.8s	remaining: 1m 28s
166:	learn: 0.2266025	total: 44.1s	remaining: 1m 27s
167:	learn: 0.2265333	total: 44.3s	remaining: 1m 27s
168:	learn: 0.2264939	total: 44.6s	remaining: 1m 27s
169:	learn: 0.2263760	total: 44.9s	remaining: 1m 27s
170:	learn: 0.2263680	total: 45.1s	remaining: 1m 26s
171:	learn: 0.2262153	total: 45.4s	remaining: 1m 26s
172:	learn: 0.2261560	total: 45.7s	remaining: 1m 26s
173:	learn: 0.2259587	total: 46s	remaining: 1m 26s
174:	learn: 0.2258614	total: 46.2s	remaining: 1m 25s
175:	learn: 0.2258224	total: 46.5s	remaining: 1m 25s
176:	learn: 0.2257867	total: 46.8s	remaining: 1m 25s
177:	learn: 0.2256739	total: 47.1s	remaining: 1m 25s

178:	learn: 0.2256285	total: 47.3s	remaining: 1m 24s
179:	learn: 0.2254782	total: 47.6s	remaining: 1m 24s
180:	learn: 0.2253650	total: 47.9s	remaining: 1m 24s
181:	learn: 0.2252811	total: 48.2s	remaining: 1m 24s
182:	learn: 0.2251381	total: 48.5s	remaining: 1m 24s
183:	learn: 0.2250829	total: 48.8s	remaining: 1m 23s
184:	learn: 0.2249695	total: 49s	remaining: 1m 23s
185:	learn: 0.2247978	total: 49.3s	remaining: 1m 23s
186:	learn: 0.2246123	total: 49.5s	remaining: 1m 22s
187:	learn: 0.2245131	total: 49.8s	remaining: 1m 22s
188:	learn: 0.2243433	total: 50s	remaining: 1m 22s
189:	learn: 0.2241893	total: 50.3s	remaining: 1m 22s
190:	learn: 0.2240942	total: 50.5s	remaining: 1m 21s
191:	learn: 0.2238831	total: 50.8s	remaining: 1m 21s
192:	learn: 0.2238481	total: 51s	remaining: 1m 21s
193:	learn: 0.2238177	total: 51.2s	remaining: 1m 20s
194:	learn: 0.2237128	total: 51.5s	remaining: 1m 20s
195:	learn: 0.2237027	total: 51.7s	remaining: 1m 20s
196:	learn: 0.2236306	total: 52s	remaining: 1m 19s
197:	learn: 0.2235900	total: 52.2s	remaining: 1m 19s
198:	learn: 0.2235163	total: 52.5s	remaining: 1m 19s
199:	learn: 0.2234304	total: 52.7s	remaining: 1m 19s
200:	learn: 0.2232913	total: 52.9s	remaining: 1m 18s
201:	learn: 0.2232553	total: 53.2s	remaining: 1m 18s
202:	learn: 0.2231826	total: 53.4s	remaining: 1m 18s
203:	learn: 0.2231510	total: 53.7s	remaining: 1m 17s
204:	learn: 0.2231442	total: 53.9s	remaining: 1m 17s
205:	learn: 0.2230157	total: 54.2s	remaining: 1m 17s
206:	learn: 0.2229935	total: 54.5s	remaining: 1m 17s
207:	learn: 0.2229420	total: 54.8s	remaining: 1m 16s
208:	learn: 0.2228819	total: 55.1s	remaining: 1m 16s
209:	learn: 0.2228186	total: 55.4s	remaining: 1m 16s
210:	learn: 0.2226948	total: 55.7s	remaining: 1m 16s
211:	learn: 0.2226050	total: 55.9s	remaining: 1m 16s
212:	learn: 0.2225983	total: 56.2s	remaining: 1m 15s
213:	learn: 0.2225652	total: 56.5s	remaining: 1m 15s
214:	learn: 0.2224955	total: 56.7s	remaining: 1m 15s
215:	learn: 0.2224528	total: 56.9s	remaining: 1m 14s
216:	learn: 0.2223895	total: 57.2s	remaining: 1m 14s
217:	learn: 0.2223013	total: 57.5s	remaining: 1m 14s
218:	learn: 0.2222251	total: 57.7s	remaining: 1m 14s
219:	learn: 0.2221132	total: 58s	remaining: 1m 13s
220:	learn: 0.2220616	total: 58.3s	remaining: 1m 13s
221:	learn: 0.2219835	total: 58.6s	remaining: 1m 13s
222:	learn: 0.2219230	total: 58.8s	remaining: 1m 13s
223:	learn: 0.2218650	total: 59.1s	remaining: 1m 12s
224:	learn: 0.2218482	total: 59.4s	remaining: 1m 12s
225:	learn: 0.2216909	total: 59.6s	remaining: 1m 12s

226:	learn: 0.2216620	total: 60s	remaining: 1m 12s
227:	learn: 0.2216391	total: 1m	remaining: 1m 11s
228:	learn: 0.2215735	total: 1m	remaining: 1m 11s
229:	learn: 0.2215358	total: 1m	remaining: 1m 11s
230:	learn: 0.2215028	total: 1m 1s	remaining: 1m 11s
231:	learn: 0.2214449	total: 1m 1s	remaining: 1m 10s
232:	learn: 0.2213893	total: 1m 1s	remaining: 1m 10s
233:	learn: 0.2213041	total: 1m 1s	remaining: 1m 10s
234:	learn: 0.2212864	total: 1m 2s	remaining: 1m 10s
235:	learn: 0.2212138	total: 1m 2s	remaining: 1m 9s
236:	learn: 0.2211951	total: 1m 2s	remaining: 1m 9s
237:	learn: 0.2211670	total: 1m 3s	remaining: 1m 9s
238:	learn: 0.2211094	total: 1m 3s	remaining: 1m 9s
239:	learn: 0.2210809	total: 1m 3s	remaining: 1m 8s
240:	learn: 0.2209907	total: 1m 3s	remaining: 1m 8s
241:	learn: 0.2209623	total: 1m 4s	remaining: 1m 8s
242:	learn: 0.2208299	total: 1m 4s	remaining: 1m 8s
243:	learn: 0.2207898	total: 1m 4s	remaining: 1m 7s
244:	learn: 0.2207260	total: 1m 4s	remaining: 1m 7s
245:	learn: 0.2206850	total: 1m 5s	remaining: 1m 7s
246:	learn: 0.2206532	total: 1m 5s	remaining: 1m 6s
247:	learn: 0.2206117	total: 1m 5s	remaining: 1m 6s
248:	learn: 0.2205372	total: 1m 5s	remaining: 1m 6s
249:	learn: 0.2205050	total: 1m 6s	remaining: 1m 6s
250:	learn: 0.2204480	total: 1m 6s	remaining: 1m 5s
251:	learn: 0.2203045	total: 1m 6s	remaining: 1m 5s
252:	learn: 0.2201795	total: 1m 6s	remaining: 1m 5s
253:	learn: 0.2201480	total: 1m 6s	remaining: 1m 4s
254:	learn: 0.2200561	total: 1m 7s	remaining: 1m 4s
255:	learn: 0.2199597	total: 1m 7s	remaining: 1m 4s
256:	learn: 0.2198485	total: 1m 7s	remaining: 1m 3s
257:	learn: 0.2197858	total: 1m 7s	remaining: 1m 3s
258:	learn: 0.2197512	total: 1m 7s	remaining: 1m 3s
259:	learn: 0.2197067	total: 1m 7s	remaining: 1m 2s
260:	learn: 0.2196694	total: 1m 8s	remaining: 1m 2s
261:	learn: 0.2195333	total: 1m 8s	remaining: 1m 2s
262:	learn: 0.2194836	total: 1m 8s	remaining: 1m 1s
263:	learn: 0.2194091	total: 1m 8s	remaining: 1m 1s
264:	learn: 0.2193747	total: 1m 8s	remaining: 1m 1s
265:	learn: 0.2190935	total: 1m 9s	remaining: 1m
266:	learn: 0.2190653	total: 1m 9s	remaining: 1m
267:	learn: 0.2189661	total: 1m 9s	remaining: 1m
268:	learn: 0.2189422	total: 1m 9s	remaining: 1m
269:	learn: 0.2188791	total: 1m 10s	remaining: 59.7s
270:	learn: 0.2187250	total: 1m 10s	remaining: 59.5s
271:	learn: 0.2186726	total: 1m 10s	remaining: 59.2s
272:	learn: 0.2186405	total: 1m 10s	remaining: 59s
273:	learn: 0.2185247	total: 1m 11s	remaining: 58.7s

274:	learn: 0.2184938	total: 1m 11s	remaining: 58.5s
275:	learn: 0.2184234	total: 1m 11s	remaining: 58.2s
276:	learn: 0.2183768	total: 1m 12s	remaining: 58s
277:	learn: 0.2182930	total: 1m 12s	remaining: 57.7s
278:	learn: 0.2181804	total: 1m 12s	remaining: 57.5s
279:	learn: 0.2180854	total: 1m 12s	remaining: 57.2s
280:	learn: 0.2180302	total: 1m 13s	remaining: 57s
281:	learn: 0.2179933	total: 1m 13s	remaining: 56.7s
282:	learn: 0.2179518	total: 1m 13s	remaining: 56.5s
283:	learn: 0.2178499	total: 1m 13s	remaining: 56.3s
284:	learn: 0.2178022	total: 1m 14s	remaining: 56s
285:	learn: 0.2177120	total: 1m 14s	remaining: 55.8s
286:	learn: 0.2176398	total: 1m 14s	remaining: 55.5s
287:	learn: 0.2175626	total: 1m 15s	remaining: 55.3s
288:	learn: 0.2175357	total: 1m 15s	remaining: 55s
289:	learn: 0.2174589	total: 1m 15s	remaining: 54.7s
290:	learn: 0.2173871	total: 1m 15s	remaining: 54.5s
291:	learn: 0.2173536	total: 1m 16s	remaining: 54.3s
292:	learn: 0.2173053	total: 1m 16s	remaining: 54s
293:	learn: 0.2172766	total: 1m 16s	remaining: 53.8s
294:	learn: 0.2172442	total: 1m 17s	remaining: 53.5s
295:	learn: 0.2171202	total: 1m 17s	remaining: 53.3s
296:	learn: 0.2165734	total: 1m 17s	remaining: 53.1s
297:	learn: 0.2164940	total: 1m 17s	remaining: 52.8s
298:	learn: 0.2164748	total: 1m 18s	remaining: 52.6s
299:	learn: 0.2164273	total: 1m 18s	remaining: 52.3s
300:	learn: 0.2163868	total: 1m 18s	remaining: 52.1s
301:	learn: 0.2163499	total: 1m 19s	remaining: 51.8s
302:	learn: 0.2162990	total: 1m 19s	remaining: 51.5s
303:	learn: 0.2162920	total: 1m 19s	remaining: 51.3s
304:	learn: 0.2162627	total: 1m 19s	remaining: 51s
305:	learn: 0.2162289	total: 1m 20s	remaining: 50.8s
306:	learn: 0.2161573	total: 1m 20s	remaining: 50.5s
307:	learn: 0.2161133	total: 1m 20s	remaining: 50.3s
308:	learn: 0.2160662	total: 1m 20s	remaining: 50s
309:	learn: 0.2160235	total: 1m 21s	remaining: 49.8s
310:	learn: 0.2159309	total: 1m 21s	remaining: 49.5s
311:	learn: 0.2158828	total: 1m 21s	remaining: 49.2s
312:	learn: 0.2157920	total: 1m 21s	remaining: 49s
313:	learn: 0.2157281	total: 1m 22s	remaining: 48.7s
314:	learn: 0.2156385	total: 1m 22s	remaining: 48.4s
315:	learn: 0.2155738	total: 1m 22s	remaining: 48.2s
316:	learn: 0.2155105	total: 1m 22s	remaining: 47.9s
317:	learn: 0.2154842	total: 1m 23s	remaining: 47.6s
318:	learn: 0.2154167	total: 1m 23s	remaining: 47.3s
319:	learn: 0.2153901	total: 1m 23s	remaining: 47.1s
320:	learn: 0.2153152	total: 1m 23s	remaining: 46.8s
321:	learn: 0.2152606	total: 1m 24s	remaining: 46.6s

322:	learn: 0.2152301	total: 1m 24s	remaining: 46.3s
323:	learn: 0.2151638	total: 1m 24s	remaining: 46s
324:	learn: 0.2150940	total: 1m 24s	remaining: 45.7s
325:	learn: 0.2150556	total: 1m 25s	remaining: 45.5s
326:	learn: 0.2149195	total: 1m 25s	remaining: 45.2s
327:	learn: 0.2148749	total: 1m 25s	remaining: 45s
328:	learn: 0.2148364	total: 1m 26s	remaining: 44.7s
329:	learn: 0.2147953	total: 1m 26s	remaining: 44.4s
330:	learn: 0.2147110	total: 1m 26s	remaining: 44.2s
331:	learn: 0.2146354	total: 1m 26s	remaining: 43.9s
332:	learn: 0.2145335	total: 1m 27s	remaining: 43.7s
333:	learn: 0.2144980	total: 1m 27s	remaining: 43.4s
334:	learn: 0.2144666	total: 1m 27s	remaining: 43.1s
335:	learn: 0.2144336	total: 1m 27s	remaining: 42.9s
336:	learn: 0.2143189	total: 1m 28s	remaining: 42.6s
337:	learn: 0.2142830	total: 1m 28s	remaining: 42.4s
338:	learn: 0.2142002	total: 1m 28s	remaining: 42.1s
339:	learn: 0.2141692	total: 1m 28s	remaining: 41.8s
340:	learn: 0.2141203	total: 1m 29s	remaining: 41.6s
341:	learn: 0.2140846	total: 1m 29s	remaining: 41.3s
342:	learn: 0.2140375	total: 1m 29s	remaining: 41.1s
343:	learn: 0.2139551	total: 1m 29s	remaining: 40.8s
344:	learn: 0.2139226	total: 1m 30s	remaining: 40.5s
345:	learn: 0.2138837	total: 1m 30s	remaining: 40.3s
346:	learn: 0.2137295	total: 1m 30s	remaining: 40s
347:	learn: 0.2135851	total: 1m 31s	remaining: 39.8s
348:	learn: 0.2135329	total: 1m 31s	remaining: 39.5s
349:	learn: 0.2134734	total: 1m 31s	remaining: 39.2s
350:	learn: 0.2134401	total: 1m 31s	remaining: 39s
351:	learn: 0.2133675	total: 1m 32s	remaining: 38.7s
352:	learn: 0.2133228	total: 1m 32s	remaining: 38.5s
353:	learn: 0.2133086	total: 1m 32s	remaining: 38.3s
354:	learn: 0.2132790	total: 1m 33s	remaining: 38s
355:	learn: 0.2132550	total: 1m 33s	remaining: 37.7s
356:	learn: 0.2131870	total: 1m 33s	remaining: 37.5s
357:	learn: 0.2130998	total: 1m 33s	remaining: 37.2s
358:	learn: 0.2130141	total: 1m 34s	remaining: 37s
359:	learn: 0.2129623	total: 1m 34s	remaining: 36.7s
360:	learn: 0.2128437	total: 1m 34s	remaining: 36.4s
361:	learn: 0.2128003	total: 1m 34s	remaining: 36.2s
362:	learn: 0.2127062	total: 1m 35s	remaining: 35.9s
363:	learn: 0.2126987	total: 1m 35s	remaining: 35.6s
364:	learn: 0.2126733	total: 1m 35s	remaining: 35.4s
365:	learn: 0.2126136	total: 1m 35s	remaining: 35.1s
366:	learn: 0.2125486	total: 1m 36s	remaining: 34.9s
367:	learn: 0.2124572	total: 1m 36s	remaining: 34.6s
368:	learn: 0.2123907	total: 1m 36s	remaining: 34.3s
369:	learn: 0.2122970	total: 1m 36s	remaining: 34.1s

370:	learn: 0.2122410	total: 1m 37s	remaining: 33.8s
371:	learn: 0.2122213	total: 1m 37s	remaining: 33.5s
372:	learn: 0.2121918	total: 1m 37s	remaining: 33.3s
373:	learn: 0.2121576	total: 1m 37s	remaining: 33s
374:	learn: 0.2121435	total: 1m 38s	remaining: 32.7s
375:	learn: 0.2120864	total: 1m 38s	remaining: 32.5s
376:	learn: 0.2120642	total: 1m 38s	remaining: 32.2s
377:	learn: 0.2120231	total: 1m 38s	remaining: 31.9s
378:	learn: 0.2119515	total: 1m 39s	remaining: 31.7s
379:	learn: 0.2119160	total: 1m 39s	remaining: 31.4s
380:	learn: 0.2118775	total: 1m 39s	remaining: 31.1s
381:	learn: 0.2118019	total: 1m 39s	remaining: 30.9s
382:	learn: 0.2116673	total: 1m 40s	remaining: 30.6s
383:	learn: 0.2115345	total: 1m 40s	remaining: 30.3s
384:	learn: 0.2114834	total: 1m 40s	remaining: 30.1s
385:	learn: 0.2114474	total: 1m 40s	remaining: 29.8s
386:	learn: 0.2114243	total: 1m 41s	remaining: 29.5s
387:	learn: 0.2113793	total: 1m 41s	remaining: 29.3s
388:	learn: 0.2113061	total: 1m 41s	remaining: 29s
389:	learn: 0.2112415	total: 1m 41s	remaining: 28.8s
390:	learn: 0.2111433	total: 1m 42s	remaining: 28.5s
391:	learn: 0.2111161	total: 1m 42s	remaining: 28.2s
392:	learn: 0.2110946	total: 1m 42s	remaining: 28s
393:	learn: 0.2109937	total: 1m 43s	remaining: 27.7s
394:	learn: 0.2109801	total: 1m 43s	remaining: 27.5s
395:	learn: 0.2109600	total: 1m 43s	remaining: 27.2s
396:	learn: 0.2108987	total: 1m 43s	remaining: 26.9s
397:	learn: 0.2108365	total: 1m 44s	remaining: 26.7s
398:	learn: 0.2108208	total: 1m 44s	remaining: 26.4s
399:	learn: 0.2108100	total: 1m 44s	remaining: 26.1s
400:	learn: 0.2107841	total: 1m 44s	remaining: 25.9s
401:	learn: 0.2107676	total: 1m 45s	remaining: 25.6s
402:	learn: 0.2107175	total: 1m 45s	remaining: 25.4s
403:	learn: 0.2106253	total: 1m 45s	remaining: 25.1s
404:	learn: 0.2105450	total: 1m 45s	remaining: 24.8s
405:	learn: 0.2104968	total: 1m 46s	remaining: 24.6s
406:	learn: 0.2104574	total: 1m 46s	remaining: 24.3s
407:	learn: 0.2103785	total: 1m 46s	remaining: 24s
408:	learn: 0.2101153	total: 1m 46s	remaining: 23.8s
409:	learn: 0.2100981	total: 1m 47s	remaining: 23.5s
410:	learn: 0.2100565	total: 1m 47s	remaining: 23.3s
411:	learn: 0.2100057	total: 1m 47s	remaining: 23s
412:	learn: 0.2099798	total: 1m 48s	remaining: 22.8s
413:	learn: 0.2099334	total: 1m 48s	remaining: 22.5s
414:	learn: 0.2099146	total: 1m 48s	remaining: 22.3s
415:	learn: 0.2098647	total: 1m 48s	remaining: 22s
416:	learn: 0.2097427	total: 1m 49s	remaining: 21.7s
417:	learn: 0.2096656	total: 1m 49s	remaining: 21.5s

418:	learn: 0.2096152	total: 1m 49s	remaining: 21.2s
419:	learn: 0.2095785	total: 1m 50s	remaining: 21s
420:	learn: 0.2094708	total: 1m 50s	remaining: 20.7s
421:	learn: 0.2093985	total: 1m 50s	remaining: 20.5s
422:	learn: 0.2093737	total: 1m 50s	remaining: 20.2s
423:	learn: 0.2093164	total: 1m 51s	remaining: 19.9s
424:	learn: 0.2092744	total: 1m 51s	remaining: 19.7s
425:	learn: 0.2091786	total: 1m 51s	remaining: 19.4s
426:	learn: 0.2091508	total: 1m 52s	remaining: 19.1s
427:	learn: 0.2091350	total: 1m 52s	remaining: 18.9s
428:	learn: 0.2090704	total: 1m 52s	remaining: 18.6s
429:	learn: 0.2090569	total: 1m 52s	remaining: 18.4s
430:	learn: 0.2090011	total: 1m 53s	remaining: 18.1s
431:	learn: 0.2089294	total: 1m 53s	remaining: 17.8s
432:	learn: 0.2088316	total: 1m 53s	remaining: 17.6s
433:	learn: 0.2087965	total: 1m 53s	remaining: 17.3s
434:	learn: 0.2087783	total: 1m 54s	remaining: 17.1s
435:	learn: 0.2087562	total: 1m 54s	remaining: 16.8s
436:	learn: 0.2086992	total: 1m 54s	remaining: 16.5s
437:	learn: 0.2086772	total: 1m 54s	remaining: 16.3s
438:	learn: 0.2085907	total: 1m 55s	remaining: 16s
439:	learn: 0.2085379	total: 1m 55s	remaining: 15.7s
440:	learn: 0.2084494	total: 1m 55s	remaining: 15.5s
441:	learn: 0.2084308	total: 1m 55s	remaining: 15.2s
442:	learn: 0.2083980	total: 1m 56s	remaining: 14.9s
443:	learn: 0.2083340	total: 1m 56s	remaining: 14.7s
444:	learn: 0.2082453	total: 1m 56s	remaining: 14.4s
445:	learn: 0.2082086	total: 1m 56s	remaining: 14.2s
446:	learn: 0.2081741	total: 1m 57s	remaining: 13.9s
447:	learn: 0.2081156	total: 1m 57s	remaining: 13.6s
448:	learn: 0.2080507	total: 1m 57s	remaining: 13.4s
449:	learn: 0.2079639	total: 1m 58s	remaining: 13.1s
450:	learn: 0.2079162	total: 1m 58s	remaining: 12.8s
451:	learn: 0.2078779	total: 1m 58s	remaining: 12.6s
452:	learn: 0.2078179	total: 1m 58s	remaining: 12.3s
453:	learn: 0.2077633	total: 1m 59s	remaining: 12.1s
454:	learn: 0.2076910	total: 1m 59s	remaining: 11.8s
455:	learn: 0.2076468	total: 1m 59s	remaining: 11.5s
456:	learn: 0.2076163	total: 1m 59s	remaining: 11.3s
457:	learn: 0.2075332	total: 2m	remaining: 11s
458:	learn: 0.2074901	total: 2m	remaining: 10.8s
459:	learn: 0.2074357	total: 2m	remaining: 10.5s
460:	learn: 0.2074066	total: 2m	remaining: 10.2s
461:	learn: 0.2073923	total: 2m 1s	remaining: 9.97s
462:	learn: 0.2073633	total: 2m 1s	remaining: 9.71s
463:	learn: 0.2072911	total: 2m 1s	remaining: 9.45s
464:	learn: 0.2071949	total: 2m 2s	remaining: 9.19s
465:	learn: 0.2071770	total: 2m 2s	remaining: 8.93s

466:	learn: 0.2071385	total: 2m 2s	remaining: 8.66s
467:	learn: 0.2070877	total: 2m 2s	remaining: 8.4s
468:	learn: 0.2069970	total: 2m 3s	remaining: 8.14s
469:	learn: 0.2069895	total: 2m 3s	remaining: 7.88s
470:	learn: 0.2069389	total: 2m 3s	remaining: 7.62s
471:	learn: 0.2068701	total: 2m 3s	remaining: 7.35s
472:	learn: 0.2068464	total: 2m 4s	remaining: 7.09s
473:	learn: 0.2068072	total: 2m 4s	remaining: 6.83s
474:	learn: 0.2067671	total: 2m 4s	remaining: 6.57s
475:	learn: 0.2067252	total: 2m 5s	remaining: 6.3s
476:	learn: 0.2066670	total: 2m 5s	remaining: 6.04s
477:	learn: 0.2066181	total: 2m 5s	remaining: 5.78s
478:	learn: 0.2065573	total: 2m 5s	remaining: 5.52s
479:	learn: 0.2065257	total: 2m 6s	remaining: 5.25s
480:	learn: 0.2064904	total: 2m 6s	remaining: 4.99s
481:	learn: 0.2063481	total: 2m 6s	remaining: 4.73s
482:	learn: 0.2063069	total: 2m 6s	remaining: 4.47s
483:	learn: 0.2062470	total: 2m 7s	remaining: 4.2s
484:	learn: 0.2061667	total: 2m 7s	remaining: 3.94s
485:	learn: 0.2061331	total: 2m 7s	remaining: 3.68s
486:	learn: 0.2060996	total: 2m 7s	remaining: 3.42s
487:	learn: 0.2060832	total: 2m 8s	remaining: 3.15s
488:	learn: 0.2059996	total: 2m 8s	remaining: 2.89s
489:	learn: 0.2058987	total: 2m 8s	remaining: 2.63s
490:	learn: 0.2058526	total: 2m 9s	remaining: 2.37s
491:	learn: 0.2058423	total: 2m 9s	remaining: 2.1s
492:	learn: 0.2058033	total: 2m 9s	remaining: 1.84s
493:	learn: 0.2057651	total: 2m 9s	remaining: 1.57s
494:	learn: 0.2056423	total: 2m 9s	remaining: 1.31s
495:	learn: 0.2055759	total: 2m 10s	remaining: 1.05s
496:	learn: 0.2055557	total: 2m 10s	remaining: 787ms
497:	learn: 0.2055128	total: 2m 10s	remaining: 524ms
498:	learn: 0.2054271	total: 2m 10s	remaining: 262ms
499:	learn: 0.2053906	total: 2m 10s	remaining: 0us
Learning rate set to 0.174288			
0:	learn: 0.9715533	total: 192ms	remaining: 1m 36s
1:	learn: 0.8883449	total: 379ms	remaining: 1m 34s
2:	learn: 0.8303379	total: 588ms	remaining: 1m 37s
3:	learn: 0.7268725	total: 794ms	remaining: 1m 38s
4:	learn: 0.6936778	total: 985ms	remaining: 1m 37s
5:	learn: 0.6372329	total: 1.18s	remaining: 1m 36s
6:	learn: 0.5978185	total: 1.37s	remaining: 1m 36s
7:	learn: 0.5549299	total: 1.57s	remaining: 1m 36s
8:	learn: 0.5418109	total: 1.76s	remaining: 1m 36s
9:	learn: 0.4917172	total: 2s	remaining: 1m 37s
10:	learn: 0.4528276	total: 2.24s	remaining: 1m 39s
11:	learn: 0.4203695	total: 2.53s	remaining: 1m 43s
12:	learn: 0.3939763	total: 2.81s	remaining: 1m 45s

13:	learn: 0.3756233	total: 3.1s	remaining: 1m 47s
14:	learn: 0.3579528	total: 3.38s	remaining: 1m 49s
15:	learn: 0.3433059	total: 3.68s	remaining: 1m 51s
16:	learn: 0.3335326	total: 3.97s	remaining: 1m 52s
17:	learn: 0.3310902	total: 4.25s	remaining: 1m 53s
18:	learn: 0.3222134	total: 4.51s	remaining: 1m 54s
19:	learn: 0.3148999	total: 4.79s	remaining: 1m 55s
20:	learn: 0.3074667	total: 5.09s	remaining: 1m 56s
21:	learn: 0.3053733	total: 5.36s	remaining: 1m 56s
22:	learn: 0.2961543	total: 5.64s	remaining: 1m 56s
23:	learn: 0.2885894	total: 5.94s	remaining: 1m 57s
24:	learn: 0.2854501	total: 6.21s	remaining: 1m 58s
25:	learn: 0.2797896	total: 6.5s	remaining: 1m 58s
26:	learn: 0.2787836	total: 6.78s	remaining: 1m 58s
27:	learn: 0.2756668	total: 7.08s	remaining: 1m 59s
28:	learn: 0.2747514	total: 7.37s	remaining: 1m 59s
29:	learn: 0.2703065	total: 7.66s	remaining: 2m
30:	learn: 0.2693552	total: 7.93s	remaining: 2m
31:	learn: 0.2687636	total: 8.22s	remaining: 2m
32:	learn: 0.2683486	total: 8.48s	remaining: 1m 59s
33:	learn: 0.2651594	total: 8.79s	remaining: 2m
34:	learn: 0.2646752	total: 9.05s	remaining: 2m
35:	learn: 0.2633018	total: 9.35s	remaining: 2m
36:	learn: 0.2629058	total: 9.61s	remaining: 2m
37:	learn: 0.2618526	total: 9.93s	remaining: 2m
38:	learn: 0.2611279	total: 10.2s	remaining: 2m
39:	learn: 0.2607630	total: 10.5s	remaining: 2m
40:	learn: 0.2603806	total: 10.8s	remaining: 2m
41:	learn: 0.2601343	total: 11s	remaining: 2m
42:	learn: 0.2600175	total: 11.2s	remaining: 1m 59s
43:	learn: 0.2598279	total: 11.5s	remaining: 1m 59s
44:	learn: 0.2595622	total: 11.7s	remaining: 1m 58s
45:	learn: 0.2562517	total: 12s	remaining: 1m 58s
46:	learn: 0.2557959	total: 12.3s	remaining: 1m 58s
47:	learn: 0.2552691	total: 12.6s	remaining: 1m 58s
48:	learn: 0.2550996	total: 12.9s	remaining: 1m 58s
49:	learn: 0.2549026	total: 13.2s	remaining: 1m 58s
50:	learn: 0.2531229	total: 13.5s	remaining: 1m 58s
51:	learn: 0.2529405	total: 13.7s	remaining: 1m 58s
52:	learn: 0.2519615	total: 14s	remaining: 1m 57s
53:	learn: 0.2514304	total: 14.2s	remaining: 1m 57s
54:	learn: 0.2513008	total: 14.5s	remaining: 1m 57s
55:	learn: 0.2511603	total: 14.8s	remaining: 1m 57s
56:	learn: 0.2510107	total: 15.1s	remaining: 1m 57s
57:	learn: 0.2484835	total: 15.4s	remaining: 1m 57s
58:	learn: 0.2481481	total: 15.7s	remaining: 1m 57s
59:	learn: 0.2459852	total: 15.9s	remaining: 1m 56s
60:	learn: 0.2454109	total: 16.2s	remaining: 1m 56s

61:	learn: 0.2452679	total: 16.4s	remaining: 1m 55s
62:	learn: 0.2451662	total: 16.7s	remaining: 1m 55s
63:	learn: 0.2451067	total: 16.9s	remaining: 1m 55s
64:	learn: 0.2450056	total: 17.2s	remaining: 1m 55s
65:	learn: 0.2447369	total: 17.5s	remaining: 1m 54s
66:	learn: 0.2446105	total: 17.7s	remaining: 1m 54s
67:	learn: 0.2445665	total: 17.9s	remaining: 1m 53s
68:	learn: 0.2444599	total: 18.2s	remaining: 1m 53s
69:	learn: 0.2441859	total: 18.4s	remaining: 1m 53s
70:	learn: 0.2440060	total: 18.7s	remaining: 1m 53s
71:	learn: 0.2437941	total: 19s	remaining: 1m 53s
72:	learn: 0.2436566	total: 19.3s	remaining: 1m 52s
73:	learn: 0.2434605	total: 19.6s	remaining: 1m 52s
74:	learn: 0.2433531	total: 19.9s	remaining: 1m 52s
75:	learn: 0.2429878	total: 20.2s	remaining: 1m 52s
76:	learn: 0.2428119	total: 20.5s	remaining: 1m 52s
77:	learn: 0.2427038	total: 20.7s	remaining: 1m 52s
78:	learn: 0.2426164	total: 21s	remaining: 1m 51s
79:	learn: 0.2425557	total: 21.3s	remaining: 1m 51s
80:	learn: 0.2424767	total: 21.6s	remaining: 1m 51s
81:	learn: 0.2422302	total: 21.8s	remaining: 1m 51s
82:	learn: 0.2420474	total: 22.1s	remaining: 1m 50s
83:	learn: 0.2419440	total: 22.4s	remaining: 1m 50s
84:	learn: 0.2417876	total: 22.7s	remaining: 1m 50s
85:	learn: 0.2417489	total: 22.9s	remaining: 1m 50s
86:	learn: 0.2416077	total: 23.3s	remaining: 1m 50s
87:	learn: 0.2415851	total: 23.5s	remaining: 1m 50s
88:	learn: 0.2413995	total: 23.8s	remaining: 1m 50s
89:	learn: 0.2412200	total: 24.1s	remaining: 1m 49s
90:	learn: 0.2410291	total: 24.4s	remaining: 1m 49s
91:	learn: 0.2395706	total: 24.7s	remaining: 1m 49s
92:	learn: 0.2393336	total: 25s	remaining: 1m 49s
93:	learn: 0.2391682	total: 25.3s	remaining: 1m 49s
94:	learn: 0.2389332	total: 25.6s	remaining: 1m 48s
95:	learn: 0.2388215	total: 25.8s	remaining: 1m 48s
96:	learn: 0.2386337	total: 26.1s	remaining: 1m 48s
97:	learn: 0.2385358	total: 26.4s	remaining: 1m 48s
98:	learn: 0.2385063	total: 26.6s	remaining: 1m 47s
99:	learn: 0.2384369	total: 26.9s	remaining: 1m 47s
100:	learn: 0.2383375	total: 27.2s	remaining: 1m 47s
101:	learn: 0.2382386	total: 27.4s	remaining: 1m 47s
102:	learn: 0.2381495	total: 27.7s	remaining: 1m 46s
103:	learn: 0.2380916	total: 28s	remaining: 1m 46s
104:	learn: 0.2379990	total: 28.3s	remaining: 1m 46s
105:	learn: 0.2377779	total: 28.6s	remaining: 1m 46s
106:	learn: 0.2376084	total: 28.9s	remaining: 1m 46s
107:	learn: 0.2374599	total: 29.1s	remaining: 1m 45s
108:	learn: 0.2372884	total: 29.4s	remaining: 1m 45s

109:	learn: 0.2371225	total: 29.6s	remaining: 1m 45s
110:	learn: 0.2370557	total: 29.9s	remaining: 1m 44s
111:	learn: 0.2369495	total: 30.1s	remaining: 1m 44s
112:	learn: 0.2367179	total: 30.4s	remaining: 1m 44s
113:	learn: 0.2366678	total: 30.7s	remaining: 1m 43s
114:	learn: 0.2365506	total: 31s	remaining: 1m 43s
115:	learn: 0.2363843	total: 31.2s	remaining: 1m 43s
116:	learn: 0.2363587	total: 31.4s	remaining: 1m 42s
117:	learn: 0.2362770	total: 31.7s	remaining: 1m 42s
118:	learn: 0.2354763	total: 32s	remaining: 1m 42s
119:	learn: 0.2353978	total: 32.2s	remaining: 1m 41s
120:	learn: 0.2349390	total: 32.4s	remaining: 1m 41s
121:	learn: 0.2348489	total: 32.7s	remaining: 1m 41s
122:	learn: 0.2347758	total: 32.9s	remaining: 1m 40s
123:	learn: 0.2345444	total: 33.2s	remaining: 1m 40s
124:	learn: 0.2344160	total: 33.4s	remaining: 1m 40s
125:	learn: 0.2343613	total: 33.7s	remaining: 1m 39s
126:	learn: 0.2343289	total: 33.9s	remaining: 1m 39s
127:	learn: 0.2342166	total: 34.1s	remaining: 1m 39s
128:	learn: 0.2341275	total: 34.4s	remaining: 1m 38s
129:	learn: 0.2336041	total: 34.7s	remaining: 1m 38s
130:	learn: 0.2335064	total: 35s	remaining: 1m 38s
131:	learn: 0.2333920	total: 35.2s	remaining: 1m 38s
132:	learn: 0.2333282	total: 35.5s	remaining: 1m 37s
133:	learn: 0.2332694	total: 35.8s	remaining: 1m 37s
134:	learn: 0.2331669	total: 36.1s	remaining: 1m 37s
135:	learn: 0.2330426	total: 36.3s	remaining: 1m 37s
136:	learn: 0.2329285	total: 36.6s	remaining: 1m 36s
137:	learn: 0.2328720	total: 36.8s	remaining: 1m 36s
138:	learn: 0.2327632	total: 37.1s	remaining: 1m 36s
139:	learn: 0.2326850	total: 37.3s	remaining: 1m 35s
140:	learn: 0.2325562	total: 37.6s	remaining: 1m 35s
141:	learn: 0.2323975	total: 37.9s	remaining: 1m 35s
142:	learn: 0.2322594	total: 38.2s	remaining: 1m 35s
143:	learn: 0.2321342	total: 38.4s	remaining: 1m 35s
144:	learn: 0.2320398	total: 38.7s	remaining: 1m 34s
145:	learn: 0.2319210	total: 39s	remaining: 1m 34s
146:	learn: 0.2318328	total: 39.3s	remaining: 1m 34s
147:	learn: 0.2317457	total: 39.6s	remaining: 1m 34s
148:	learn: 0.2317025	total: 39.9s	remaining: 1m 33s
149:	learn: 0.2316486	total: 40.2s	remaining: 1m 33s
150:	learn: 0.2315168	total: 40.4s	remaining: 1m 33s
151:	learn: 0.2314403	total: 40.7s	remaining: 1m 33s
152:	learn: 0.2313816	total: 41s	remaining: 1m 32s
153:	learn: 0.2311349	total: 41.3s	remaining: 1m 32s
154:	learn: 0.2310571	total: 41.5s	remaining: 1m 32s
155:	learn: 0.2310028	total: 41.8s	remaining: 1m 32s
156:	learn: 0.2308971	total: 42.1s	remaining: 1m 31s

157:	learn: 0.2307472	total: 42.4s	remaining: 1m 31s
158:	learn: 0.2306092	total: 42.6s	remaining: 1m 31s
159:	learn: 0.2305163	total: 42.9s	remaining: 1m 31s
160:	learn: 0.2303694	total: 43.2s	remaining: 1m 30s
161:	learn: 0.2302930	total: 43.5s	remaining: 1m 30s
162:	learn: 0.2302649	total: 43.7s	remaining: 1m 30s
163:	learn: 0.2301491	total: 44s	remaining: 1m 30s
164:	learn: 0.2301046	total: 44.3s	remaining: 1m 29s
165:	learn: 0.2300519	total: 44.6s	remaining: 1m 29s
166:	learn: 0.2300386	total: 44.8s	remaining: 1m 29s
167:	learn: 0.2299991	total: 45.1s	remaining: 1m 29s
168:	learn: 0.2298837	total: 45.3s	remaining: 1m 28s
169:	learn: 0.2298524	total: 45.6s	remaining: 1m 28s
170:	learn: 0.2298166	total: 45.8s	remaining: 1m 28s
171:	learn: 0.2297289	total: 46s	remaining: 1m 27s
172:	learn: 0.2296407	total: 46.3s	remaining: 1m 27s
173:	learn: 0.2295756	total: 46.6s	remaining: 1m 27s
174:	learn: 0.2294303	total: 46.8s	remaining: 1m 26s
175:	learn: 0.2293819	total: 47.1s	remaining: 1m 26s
176:	learn: 0.2293658	total: 47.4s	remaining: 1m 26s
177:	learn: 0.2292409	total: 47.6s	remaining: 1m 26s
178:	learn: 0.2289600	total: 47.9s	remaining: 1m 25s
179:	learn: 0.2289241	total: 48.2s	remaining: 1m 25s
180:	learn: 0.2288446	total: 48.5s	remaining: 1m 25s
181:	learn: 0.2287782	total: 48.8s	remaining: 1m 25s
182:	learn: 0.2287020	total: 49s	remaining: 1m 24s
183:	learn: 0.2286388	total: 49.3s	remaining: 1m 24s
184:	learn: 0.2285470	total: 49.5s	remaining: 1m 24s
185:	learn: 0.2284043	total: 49.8s	remaining: 1m 24s
186:	learn: 0.2283640	total: 50s	remaining: 1m 23s
187:	learn: 0.2283104	total: 50.2s	remaining: 1m 23s
188:	learn: 0.2281358	total: 50.5s	remaining: 1m 23s
189:	learn: 0.2280279	total: 50.8s	remaining: 1m 22s
190:	learn: 0.2279245	total: 51.1s	remaining: 1m 22s
191:	learn: 0.2278624	total: 51.4s	remaining: 1m 22s
192:	learn: 0.2278031	total: 51.6s	remaining: 1m 22s
193:	learn: 0.2277053	total: 51.9s	remaining: 1m 21s
194:	learn: 0.2276871	total: 52.2s	remaining: 1m 21s
195:	learn: 0.2276142	total: 52.4s	remaining: 1m 21s
196:	learn: 0.2274413	total: 52.7s	remaining: 1m 21s
197:	learn: 0.2273993	total: 53s	remaining: 1m 20s
198:	learn: 0.2273449	total: 53.3s	remaining: 1m 20s
199:	learn: 0.2272812	total: 53.5s	remaining: 1m 20s
200:	learn: 0.2272087	total: 53.8s	remaining: 1m 20s
201:	learn: 0.2269814	total: 54.1s	remaining: 1m 19s
202:	learn: 0.2269165	total: 54.4s	remaining: 1m 19s
203:	learn: 0.2268078	total: 54.6s	remaining: 1m 19s
204:	learn: 0.2267463	total: 54.9s	remaining: 1m 19s

205:	learn: 0.2266388	total: 55.2s	remaining: 1m 18s
206:	learn: 0.2265725	total: 55.5s	remaining: 1m 18s
207:	learn: 0.2265103	total: 55.8s	remaining: 1m 18s
208:	learn: 0.2264582	total: 56s	remaining: 1m 18s
209:	learn: 0.2264081	total: 56.3s	remaining: 1m 17s
210:	learn: 0.2263943	total: 56.6s	remaining: 1m 17s
211:	learn: 0.2263410	total: 56.8s	remaining: 1m 17s
212:	learn: 0.2262507	total: 57.1s	remaining: 1m 16s
213:	learn: 0.2261122	total: 57.4s	remaining: 1m 16s
214:	learn: 0.2260345	total: 57.7s	remaining: 1m 16s
215:	learn: 0.2259743	total: 57.9s	remaining: 1m 16s
216:	learn: 0.2258797	total: 58.2s	remaining: 1m 15s
217:	learn: 0.2258412	total: 58.5s	remaining: 1m 15s
218:	learn: 0.2257918	total: 58.7s	remaining: 1m 15s
219:	learn: 0.2257481	total: 59s	remaining: 1m 15s
220:	learn: 0.2256453	total: 59.3s	remaining: 1m 14s
221:	learn: 0.2255168	total: 59.6s	remaining: 1m 14s
222:	learn: 0.2254699	total: 59.9s	remaining: 1m 14s
223:	learn: 0.2254152	total: 1m	remaining: 1m 14s
224:	learn: 0.2253635	total: 1m	remaining: 1m 13s
225:	learn: 0.2253234	total: 1m	remaining: 1m 13s
226:	learn: 0.2252502	total: 1m	remaining: 1m 13s
227:	learn: 0.2251922	total: 1m 1s	remaining: 1m 13s
228:	learn: 0.2250732	total: 1m 1s	remaining: 1m 12s
229:	learn: 0.2250108	total: 1m 1s	remaining: 1m 12s
230:	learn: 0.2249096	total: 1m 2s	remaining: 1m 12s
231:	learn: 0.2247999	total: 1m 2s	remaining: 1m 11s
232:	learn: 0.2246988	total: 1m 2s	remaining: 1m 11s
233:	learn: 0.2244895	total: 1m 2s	remaining: 1m 11s
234:	learn: 0.2244599	total: 1m 2s	remaining: 1m 11s
235:	learn: 0.2243810	total: 1m 3s	remaining: 1m 10s
236:	learn: 0.2242485	total: 1m 3s	remaining: 1m 10s
237:	learn: 0.2241993	total: 1m 3s	remaining: 1m 10s
238:	learn: 0.2239773	total: 1m 3s	remaining: 1m 9s
239:	learn: 0.2239259	total: 1m 4s	remaining: 1m 9s
240:	learn: 0.2238385	total: 1m 4s	remaining: 1m 9s
241:	learn: 0.2237716	total: 1m 4s	remaining: 1m 9s
242:	learn: 0.2234228	total: 1m 5s	remaining: 1m 8s
243:	learn: 0.2232799	total: 1m 5s	remaining: 1m 8s
244:	learn: 0.2232423	total: 1m 5s	remaining: 1m 8s
245:	learn: 0.2231807	total: 1m 5s	remaining: 1m 7s
246:	learn: 0.2229917	total: 1m 6s	remaining: 1m 7s
247:	learn: 0.2229392	total: 1m 6s	remaining: 1m 7s
248:	learn: 0.2227142	total: 1m 6s	remaining: 1m 7s
249:	learn: 0.2226680	total: 1m 6s	remaining: 1m 6s
250:	learn: 0.2226508	total: 1m 7s	remaining: 1m 6s
251:	learn: 0.2226233	total: 1m 7s	remaining: 1m 6s
252:	learn: 0.2225420	total: 1m 7s	remaining: 1m 6s

253:	learn: 0.2224989	total: 1m 8s	remaining: 1m 5s
254:	learn: 0.2224659	total: 1m 8s	remaining: 1m 5s
255:	learn: 0.2224259	total: 1m 8s	remaining: 1m 5s
256:	learn: 0.2223633	total: 1m 8s	remaining: 1m 5s
257:	learn: 0.2222301	total: 1m 9s	remaining: 1m 4s
258:	learn: 0.2221481	total: 1m 9s	remaining: 1m 4s
259:	learn: 0.2221206	total: 1m 9s	remaining: 1m 4s
260:	learn: 0.2219958	total: 1m 10s	remaining: 1m 4s
261:	learn: 0.2219041	total: 1m 10s	remaining: 1m 3s
262:	learn: 0.2218754	total: 1m 10s	remaining: 1m 3s
263:	learn: 0.2217883	total: 1m 10s	remaining: 1m 3s
264:	learn: 0.2217233	total: 1m 11s	remaining: 1m 3s
265:	learn: 0.2216107	total: 1m 11s	remaining: 1m 2s
266:	learn: 0.2215789	total: 1m 11s	remaining: 1m 2s
267:	learn: 0.2215340	total: 1m 12s	remaining: 1m 2s
268:	learn: 0.2214452	total: 1m 12s	remaining: 1m 2s
269:	learn: 0.2214064	total: 1m 12s	remaining: 1m 1s
270:	learn: 0.2212953	total: 1m 12s	remaining: 1m 1s
271:	learn: 0.2212388	total: 1m 13s	remaining: 1m 1s
272:	learn: 0.2211801	total: 1m 13s	remaining: 1m 1s
273:	learn: 0.2210859	total: 1m 13s	remaining: 1m
274:	learn: 0.2209446	total: 1m 14s	remaining: 1m
275:	learn: 0.2209089	total: 1m 14s	remaining: 1m
276:	learn: 0.2208282	total: 1m 14s	remaining: 1m
277:	learn: 0.2207530	total: 1m 14s	remaining: 59.8s
278:	learn: 0.2206669	total: 1m 15s	remaining: 59.5s
279:	learn: 0.2205921	total: 1m 15s	remaining: 59.2s
280:	learn: 0.2205486	total: 1m 15s	remaining: 59s
281:	learn: 0.2204954	total: 1m 15s	remaining: 58.7s
282:	learn: 0.2204566	total: 1m 16s	remaining: 58.4s
283:	learn: 0.2203796	total: 1m 16s	remaining: 58.2s
284:	learn: 0.2203375	total: 1m 16s	remaining: 57.9s
285:	learn: 0.2202489	total: 1m 17s	remaining: 57.6s
286:	learn: 0.2201336	total: 1m 17s	remaining: 57.3s
287:	learn: 0.2200994	total: 1m 17s	remaining: 57.1s
288:	learn: 0.2200918	total: 1m 17s	remaining: 56.8s
289:	learn: 0.2197193	total: 1m 18s	remaining: 56.5s
290:	learn: 0.2194652	total: 1m 18s	remaining: 56.2s
291:	learn: 0.2193533	total: 1m 18s	remaining: 55.9s
292:	learn: 0.2192788	total: 1m 18s	remaining: 55.6s
293:	learn: 0.2191752	total: 1m 18s	remaining: 55.3s
294:	learn: 0.2191286	total: 1m 19s	remaining: 55s
295:	learn: 0.2191145	total: 1m 19s	remaining: 54.7s
296:	learn: 0.2190528	total: 1m 19s	remaining: 54.5s
297:	learn: 0.2190082	total: 1m 19s	remaining: 54.2s
298:	learn: 0.2189298	total: 1m 20s	remaining: 53.9s
299:	learn: 0.2188473	total: 1m 20s	remaining: 53.6s
300:	learn: 0.2188197	total: 1m 20s	remaining: 53.3s

301:	learn: 0.2186761	total: 1m 20s	remaining: 53.1s
302:	learn: 0.2185248	total: 1m 21s	remaining: 52.8s
303:	learn: 0.2184858	total: 1m 21s	remaining: 52.5s
304:	learn: 0.2184518	total: 1m 21s	remaining: 52.3s
305:	learn: 0.2183530	total: 1m 21s	remaining: 52s
306:	learn: 0.2183398	total: 1m 22s	remaining: 51.7s
307:	learn: 0.2181986	total: 1m 22s	remaining: 51.4s
308:	learn: 0.2181552	total: 1m 22s	remaining: 51.2s
309:	learn: 0.2180344	total: 1m 23s	remaining: 50.9s
310:	learn: 0.2179190	total: 1m 23s	remaining: 50.7s
311:	learn: 0.2178755	total: 1m 23s	remaining: 50.4s
312:	learn: 0.2177677	total: 1m 23s	remaining: 50.1s
313:	learn: 0.2176851	total: 1m 24s	remaining: 49.9s
314:	learn: 0.2176552	total: 1m 24s	remaining: 49.6s
315:	learn: 0.2176296	total: 1m 24s	remaining: 49.3s
316:	learn: 0.2176107	total: 1m 24s	remaining: 49.1s
317:	learn: 0.2175135	total: 1m 25s	remaining: 48.8s
318:	learn: 0.2174879	total: 1m 25s	remaining: 48.5s
319:	learn: 0.2174286	total: 1m 25s	remaining: 48.3s
320:	learn: 0.2173778	total: 1m 26s	remaining: 48s
321:	learn: 0.2173301	total: 1m 26s	remaining: 47.7s
322:	learn: 0.2172988	total: 1m 26s	remaining: 47.4s
323:	learn: 0.2172322	total: 1m 26s	remaining: 47.2s
324:	learn: 0.2171896	total: 1m 27s	remaining: 46.9s
325:	learn: 0.2170954	total: 1m 27s	remaining: 46.7s
326:	learn: 0.2170647	total: 1m 27s	remaining: 46.4s
327:	learn: 0.2170011	total: 1m 28s	remaining: 46.2s
328:	learn: 0.2168898	total: 1m 28s	remaining: 45.9s
329:	learn: 0.2168296	total: 1m 28s	remaining: 45.6s
330:	learn: 0.2167367	total: 1m 28s	remaining: 45.3s
331:	learn: 0.2166556	total: 1m 29s	remaining: 45.1s
332:	learn: 0.2165888	total: 1m 29s	remaining: 44.8s
333:	learn: 0.2165459	total: 1m 29s	remaining: 44.6s
334:	learn: 0.2164399	total: 1m 29s	remaining: 44.3s
335:	learn: 0.2163136	total: 1m 30s	remaining: 44s
336:	learn: 0.2162661	total: 1m 30s	remaining: 43.8s
337:	learn: 0.2161950	total: 1m 30s	remaining: 43.5s
338:	learn: 0.2161803	total: 1m 31s	remaining: 43.2s
339:	learn: 0.2160490	total: 1m 31s	remaining: 43s
340:	learn: 0.2160041	total: 1m 31s	remaining: 42.7s
341:	learn: 0.2159508	total: 1m 31s	remaining: 42.4s
342:	learn: 0.2158311	total: 1m 32s	remaining: 42.2s
343:	learn: 0.2158035	total: 1m 32s	remaining: 41.9s
344:	learn: 0.2156824	total: 1m 32s	remaining: 41.7s
345:	learn: 0.2156454	total: 1m 33s	remaining: 41.4s
346:	learn: 0.2155769	total: 1m 33s	remaining: 41.1s
347:	learn: 0.2155275	total: 1m 33s	remaining: 40.8s
348:	learn: 0.2154514	total: 1m 33s	remaining: 40.6s

349:	learn: 0.2154165	total: 1m 34s	remaining: 40.3s
350:	learn: 0.2153771	total: 1m 34s	remaining: 40s
351:	learn: 0.2153377	total: 1m 34s	remaining: 39.7s
352:	learn: 0.2152357	total: 1m 34s	remaining: 39.5s
353:	learn: 0.2151899	total: 1m 35s	remaining: 39.2s
354:	learn: 0.2151686	total: 1m 35s	remaining: 38.9s
355:	learn: 0.2151142	total: 1m 35s	remaining: 38.6s
356:	learn: 0.2150020	total: 1m 35s	remaining: 38.4s
357:	learn: 0.2149092	total: 1m 36s	remaining: 38.1s
358:	learn: 0.2148795	total: 1m 36s	remaining: 37.8s
359:	learn: 0.2148591	total: 1m 36s	remaining: 37.5s
360:	learn: 0.2147823	total: 1m 36s	remaining: 37.2s
361:	learn: 0.2147121	total: 1m 36s	remaining: 37s
362:	learn: 0.2145626	total: 1m 37s	remaining: 36.7s
363:	learn: 0.2144881	total: 1m 37s	remaining: 36.4s
364:	learn: 0.2144019	total: 1m 37s	remaining: 36.1s
365:	learn: 0.2143392	total: 1m 37s	remaining: 35.9s
366:	learn: 0.2142907	total: 1m 38s	remaining: 35.6s
367:	learn: 0.2142509	total: 1m 38s	remaining: 35.3s
368:	learn: 0.2142373	total: 1m 38s	remaining: 35.1s
369:	learn: 0.2142030	total: 1m 39s	remaining: 34.8s
370:	learn: 0.2141359	total: 1m 39s	remaining: 34.6s
371:	learn: 0.2140977	total: 1m 39s	remaining: 34.3s
372:	learn: 0.2140380	total: 1m 39s	remaining: 34s
373:	learn: 0.2139795	total: 1m 40s	remaining: 33.7s
374:	learn: 0.2139333	total: 1m 40s	remaining: 33.5s
375:	learn: 0.2139103	total: 1m 40s	remaining: 33.2s
376:	learn: 0.2138944	total: 1m 40s	remaining: 32.9s
377:	learn: 0.2138065	total: 1m 41s	remaining: 32.7s
378:	learn: 0.2137115	total: 1m 41s	remaining: 32.4s
379:	learn: 0.2136777	total: 1m 41s	remaining: 32.2s
380:	learn: 0.2136415	total: 1m 42s	remaining: 31.9s
381:	learn: 0.2136096	total: 1m 42s	remaining: 31.6s
382:	learn: 0.2135301	total: 1m 42s	remaining: 31.4s
383:	learn: 0.2135042	total: 1m 43s	remaining: 31.1s
384:	learn: 0.2134630	total: 1m 43s	remaining: 30.9s
385:	learn: 0.2133734	total: 1m 43s	remaining: 30.6s
386:	learn: 0.2133188	total: 1m 43s	remaining: 30.3s
387:	learn: 0.2132403	total: 1m 44s	remaining: 30s
388:	learn: 0.2131278	total: 1m 44s	remaining: 29.8s
389:	learn: 0.2130860	total: 1m 44s	remaining: 29.5s
390:	learn: 0.2130603	total: 1m 44s	remaining: 29.3s
391:	learn: 0.2129101	total: 1m 45s	remaining: 29s
392:	learn: 0.2128478	total: 1m 45s	remaining: 28.7s
393:	learn: 0.2128158	total: 1m 45s	remaining: 28.5s
394:	learn: 0.2127181	total: 1m 46s	remaining: 28.2s
395:	learn: 0.2126408	total: 1m 46s	remaining: 27.9s
396:	learn: 0.2126320	total: 1m 46s	remaining: 27.7s

397:	learn: 0.2125952	total: 1m 46s	remaining: 27.4s
398:	learn: 0.2125800	total: 1m 47s	remaining: 27.1s
399:	learn: 0.2125340	total: 1m 47s	remaining: 26.8s
400:	learn: 0.2125066	total: 1m 47s	remaining: 26.6s
401:	learn: 0.2124797	total: 1m 47s	remaining: 26.3s
402:	learn: 0.2124108	total: 1m 48s	remaining: 26s
403:	learn: 0.2123504	total: 1m 48s	remaining: 25.8s
404:	learn: 0.2123148	total: 1m 48s	remaining: 25.5s
405:	learn: 0.2122292	total: 1m 49s	remaining: 25.2s
406:	learn: 0.2121850	total: 1m 49s	remaining: 25s
407:	learn: 0.2121314	total: 1m 49s	remaining: 24.7s
408:	learn: 0.2121006	total: 1m 49s	remaining: 24.4s
409:	learn: 0.2120807	total: 1m 50s	remaining: 24.1s
410:	learn: 0.2120478	total: 1m 50s	remaining: 23.9s
411:	learn: 0.2119804	total: 1m 50s	remaining: 23.6s
412:	learn: 0.2119299	total: 1m 50s	remaining: 23.3s
413:	learn: 0.2118274	total: 1m 50s	remaining: 23s
414:	learn: 0.2117383	total: 1m 51s	remaining: 22.8s
415:	learn: 0.2116517	total: 1m 51s	remaining: 22.5s
416:	learn: 0.2116018	total: 1m 51s	remaining: 22.2s
417:	learn: 0.2115715	total: 1m 51s	remaining: 22s
418:	learn: 0.2115355	total: 1m 52s	remaining: 21.7s
419:	learn: 0.2114083	total: 1m 52s	remaining: 21.4s
420:	learn: 0.2113640	total: 1m 52s	remaining: 21.1s
421:	learn: 0.2113466	total: 1m 52s	remaining: 20.9s
422:	learn: 0.2111973	total: 1m 53s	remaining: 20.6s
423:	learn: 0.2111454	total: 1m 53s	remaining: 20.3s
424:	learn: 0.2110580	total: 1m 53s	remaining: 20.1s
425:	learn: 0.2110111	total: 1m 53s	remaining: 19.8s
426:	learn: 0.2109661	total: 1m 54s	remaining: 19.5s
427:	learn: 0.2108641	total: 1m 54s	remaining: 19.2s
428:	learn: 0.2108194	total: 1m 54s	remaining: 19s
429:	learn: 0.2107790	total: 1m 54s	remaining: 18.7s
430:	learn: 0.2107559	total: 1m 55s	remaining: 18.4s
431:	learn: 0.2107217	total: 1m 55s	remaining: 18.2s
432:	learn: 0.2106954	total: 1m 55s	remaining: 17.9s
433:	learn: 0.2106372	total: 1m 56s	remaining: 17.6s
434:	learn: 0.2105725	total: 1m 56s	remaining: 17.4s
435:	learn: 0.2105606	total: 1m 56s	remaining: 17.1s
436:	learn: 0.2105098	total: 1m 56s	remaining: 16.9s
437:	learn: 0.2104087	total: 1m 57s	remaining: 16.6s
438:	learn: 0.2102723	total: 1m 57s	remaining: 16.3s
439:	learn: 0.2102101	total: 1m 57s	remaining: 16s
440:	learn: 0.2101922	total: 1m 57s	remaining: 15.8s
441:	learn: 0.2101608	total: 1m 58s	remaining: 15.5s
442:	learn: 0.2101123	total: 1m 58s	remaining: 15.2s
443:	learn: 0.2100818	total: 1m 58s	remaining: 15s
444:	learn: 0.2100383	total: 1m 59s	remaining: 14.7s

445:	learn: 0.2099993	total: 1m 59s	remaining: 14.4s
446:	learn: 0.2099907	total: 1m 59s	remaining: 14.2s
447:	learn: 0.2099132	total: 1m 59s	remaining: 13.9s
448:	learn: 0.2099003	total: 2m	remaining: 13.6s
449:	learn: 0.2098302	total: 2m	remaining: 13.4s
450:	learn: 0.2097791	total: 2m	remaining: 13.1s
451:	learn: 0.2097624	total: 2m	remaining: 12.8s
452:	learn: 0.2096576	total: 2m 1s	remaining: 12.6s
453:	learn: 0.2096299	total: 2m 1s	remaining: 12.3s
454:	learn: 0.2095558	total: 2m 1s	remaining: 12s
455:	learn: 0.2094911	total: 2m 1s	remaining: 11.8s
456:	learn: 0.2094361	total: 2m 2s	remaining: 11.5s
457:	learn: 0.2094045	total: 2m 2s	remaining: 11.2s
458:	learn: 0.2093517	total: 2m 2s	remaining: 11s
459:	learn: 0.2091958	total: 2m 3s	remaining: 10.7s
460:	learn: 0.2091621	total: 2m 3s	remaining: 10.4s
461:	learn: 0.2091235	total: 2m 3s	remaining: 10.2s
462:	learn: 0.2089716	total: 2m 3s	remaining: 9.9s
463:	learn: 0.2089194	total: 2m 4s	remaining: 9.63s
464:	learn: 0.2088182	total: 2m 4s	remaining: 9.37s
465:	learn: 0.2087590	total: 2m 4s	remaining: 9.1s
466:	learn: 0.2086318	total: 2m 5s	remaining: 8.84s
467:	learn: 0.2085793	total: 2m 5s	remaining: 8.57s
468:	learn: 0.2085715	total: 2m 5s	remaining: 8.3s
469:	learn: 0.2085290	total: 2m 5s	remaining: 8.03s
470:	learn: 0.2084715	total: 2m 6s	remaining: 7.76s
471:	learn: 0.2083923	total: 2m 6s	remaining: 7.49s
472:	learn: 0.2083662	total: 2m 6s	remaining: 7.22s
473:	learn: 0.2083318	total: 2m 6s	remaining: 6.96s
474:	learn: 0.2082542	total: 2m 7s	remaining: 6.69s
475:	learn: 0.2081621	total: 2m 7s	remaining: 6.42s
476:	learn: 0.2081036	total: 2m 7s	remaining: 6.15s
477:	learn: 0.2080488	total: 2m 7s	remaining: 5.88s
478:	learn: 0.2080064	total: 2m 8s	remaining: 5.61s
479:	learn: 0.2079259	total: 2m 8s	remaining: 5.35s
480:	learn: 0.2079049	total: 2m 8s	remaining: 5.08s
481:	learn: 0.2078205	total: 2m 8s	remaining: 4.81s
482:	learn: 0.2077829	total: 2m 9s	remaining: 4.54s
483:	learn: 0.2076943	total: 2m 9s	remaining: 4.28s
484:	learn: 0.2075417	total: 2m 9s	remaining: 4.01s
485:	learn: 0.2074232	total: 2m 9s	remaining: 3.74s
486:	learn: 0.2073905	total: 2m 10s	remaining: 3.47s
487:	learn: 0.2073618	total: 2m 10s	remaining: 3.21s
488:	learn: 0.2072828	total: 2m 10s	remaining: 2.94s
489:	learn: 0.2072171	total: 2m 10s	remaining: 2.67s
490:	learn: 0.2071924	total: 2m 11s	remaining: 2.4s
491:	learn: 0.2071276	total: 2m 11s	remaining: 2.14s
492:	learn: 0.2070996	total: 2m 11s	remaining: 1.87s

493:	learn: 0.2070331	total: 2m 12s	remaining: 1.6s
494:	learn: 0.2069709	total: 2m 12s	remaining: 1.34s
495:	learn: 0.2069586	total: 2m 12s	remaining: 1.07s
496:	learn: 0.2069345	total: 2m 12s	remaining: 802ms
497:	learn: 0.2068884	total: 2m 13s	remaining: 535ms
498:	learn: 0.2068618	total: 2m 13s	remaining: 267ms
499:	learn: 0.2067634	total: 2m 13s	remaining: 0us
Learning rate set to 0.174288			
0:	learn: 0.9705105	total: 290ms	remaining: 2m 24s
1:	learn: 0.8868716	total: 568ms	remaining: 2m 21s
2:	learn: 0.8295044	total: 874ms	remaining: 2m 24s
3:	learn: 0.7863401	total: 1.13s	remaining: 2m 19s
4:	learn: 0.7513554	total: 1.32s	remaining: 2m 10s
5:	learn: 0.6614958	total: 1.54s	remaining: 2m 6s
6:	learn: 0.5813246	total: 1.78s	remaining: 2m 5s
7:	learn: 0.5643541	total: 1.99s	remaining: 2m 2s
8:	learn: 0.5128848	total: 2.23s	remaining: 2m 1s
9:	learn: 0.4736318	total: 2.45s	remaining: 2m
10:	learn: 0.4427438	total: 2.69s	remaining: 1m 59s
11:	learn: 0.4183673	total: 2.92s	remaining: 1m 58s
12:	learn: 0.4003395	total: 3.17s	remaining: 1m 58s
13:	learn: 0.3746589	total: 3.37s	remaining: 1m 57s
14:	learn: 0.3537617	total: 3.6s	remaining: 1m 56s
15:	learn: 0.3450358	total: 3.88s	remaining: 1m 57s
16:	learn: 0.3298585	total: 4.19s	remaining: 1m 59s
17:	learn: 0.3176510	total: 4.49s	remaining: 2m
18:	learn: 0.3087522	total: 4.79s	remaining: 2m 1s
19:	learn: 0.3063611	total: 5.05s	remaining: 2m 1s
20:	learn: 0.2975399	total: 5.33s	remaining: 2m 1s
21:	learn: 0.2940864	total: 5.57s	remaining: 2m 1s
22:	learn: 0.2886329	total: 5.85s	remaining: 2m 1s
23:	learn: 0.2860652	total: 6.11s	remaining: 2m 1s
24:	learn: 0.2833045	total: 6.36s	remaining: 2m
25:	learn: 0.2773775	total: 6.61s	remaining: 2m
26:	learn: 0.2762265	total: 6.86s	remaining: 2m
27:	learn: 0.2742170	total: 7.11s	remaining: 1m 59s
28:	learn: 0.2708766	total: 7.37s	remaining: 1m 59s
29:	learn: 0.2701600	total: 7.63s	remaining: 1m 59s
30:	learn: 0.2687489	total: 7.89s	remaining: 1m 59s
31:	learn: 0.2680417	total: 8.18s	remaining: 1m 59s
32:	learn: 0.2675826	total: 8.44s	remaining: 1m 59s
33:	learn: 0.2652497	total: 8.68s	remaining: 1m 58s
34:	learn: 0.2646086	total: 8.94s	remaining: 1m 58s
35:	learn: 0.2615740	total: 9.21s	remaining: 1m 58s
36:	learn: 0.2612233	total: 9.5s	remaining: 1m 58s
37:	learn: 0.2607545	total: 9.79s	remaining: 1m 59s
38:	learn: 0.2603856	total: 10.1s	remaining: 1m 59s
39:	learn: 0.2558752	total: 10.3s	remaining: 1m 58s

40:	learn: 0.2530393	total: 10.6s	remaining: 1m 58s
41:	learn: 0.2510824	total: 10.8s	remaining: 1m 58s
42:	learn: 0.2508061	total: 11.1s	remaining: 1m 57s
43:	learn: 0.2505678	total: 11.3s	remaining: 1m 57s
44:	learn: 0.2503350	total: 11.6s	remaining: 1m 57s
45:	learn: 0.2500002	total: 11.9s	remaining: 1m 57s
46:	learn: 0.2498210	total: 12.1s	remaining: 1m 56s
47:	learn: 0.2496024	total: 12.4s	remaining: 1m 56s
48:	learn: 0.2490751	total: 12.7s	remaining: 1m 57s
49:	learn: 0.2478000	total: 13s	remaining: 1m 57s
50:	learn: 0.2474453	total: 13.3s	remaining: 1m 56s
51:	learn: 0.2469456	total: 13.5s	remaining: 1m 56s
52:	learn: 0.2464578	total: 13.8s	remaining: 1m 56s
53:	learn: 0.2463453	total: 14.1s	remaining: 1m 56s
54:	learn: 0.2461362	total: 14.4s	remaining: 1m 56s
55:	learn: 0.2460444	total: 14.6s	remaining: 1m 55s
56:	learn: 0.2458954	total: 14.9s	remaining: 1m 55s
57:	learn: 0.2457255	total: 15.2s	remaining: 1m 55s
58:	learn: 0.2455545	total: 15.5s	remaining: 1m 55s
59:	learn: 0.2453360	total: 15.8s	remaining: 1m 55s
60:	learn: 0.2448908	total: 16s	remaining: 1m 55s
61:	learn: 0.2446404	total: 16.3s	remaining: 1m 55s
62:	learn: 0.2444662	total: 16.6s	remaining: 1m 55s
63:	learn: 0.2443647	total: 16.9s	remaining: 1m 54s
64:	learn: 0.2440952	total: 17.1s	remaining: 1m 54s
65:	learn: 0.2439770	total: 17.4s	remaining: 1m 54s
66:	learn: 0.2437596	total: 17.7s	remaining: 1m 54s
67:	learn: 0.2434432	total: 18s	remaining: 1m 54s
68:	learn: 0.2433921	total: 18.2s	remaining: 1m 53s
69:	learn: 0.2414648	total: 18.5s	remaining: 1m 53s
70:	learn: 0.2408714	total: 18.8s	remaining: 1m 53s
71:	learn: 0.2407282	total: 19.1s	remaining: 1m 53s
72:	learn: 0.2406730	total: 19.3s	remaining: 1m 53s
73:	learn: 0.2398139	total: 19.6s	remaining: 1m 52s
74:	learn: 0.2396173	total: 19.9s	remaining: 1m 52s
75:	learn: 0.2391779	total: 20.2s	remaining: 1m 52s
76:	learn: 0.2389727	total: 20.5s	remaining: 1m 52s
77:	learn: 0.2387685	total: 20.7s	remaining: 1m 52s
78:	learn: 0.2377106	total: 21.1s	remaining: 1m 52s
79:	learn: 0.2375590	total: 21.4s	remaining: 1m 52s
80:	learn: 0.2375512	total: 21.6s	remaining: 1m 51s
81:	learn: 0.2373395	total: 21.9s	remaining: 1m 51s
82:	learn: 0.2373013	total: 22.2s	remaining: 1m 51s
83:	learn: 0.2371973	total: 22.4s	remaining: 1m 51s
84:	learn: 0.2370287	total: 22.7s	remaining: 1m 50s
85:	learn: 0.2367815	total: 22.9s	remaining: 1m 50s
86:	learn: 0.2366651	total: 23.2s	remaining: 1m 50s
87:	learn: 0.2364943	total: 23.5s	remaining: 1m 49s

88:	learn: 0.2363893	total: 23.7s	remaining: 1m 49s
89:	learn: 0.2363284	total: 24s	remaining: 1m 49s
90:	learn: 0.2361589	total: 24.3s	remaining: 1m 49s
91:	learn: 0.2360415	total: 24.5s	remaining: 1m 48s
92:	learn: 0.2359731	total: 24.8s	remaining: 1m 48s
93:	learn: 0.2359197	total: 25s	remaining: 1m 47s
94:	learn: 0.2357176	total: 25.3s	remaining: 1m 47s
95:	learn: 0.2355007	total: 25.5s	remaining: 1m 47s
96:	learn: 0.2351680	total: 25.7s	remaining: 1m 46s
97:	learn: 0.2350433	total: 26s	remaining: 1m 46s
98:	learn: 0.2349247	total: 26.2s	remaining: 1m 46s
99:	learn: 0.2347850	total: 26.5s	remaining: 1m 45s
100:	learn: 0.2346862	total: 26.7s	remaining: 1m 45s
101:	learn: 0.2345797	total: 26.9s	remaining: 1m 45s
102:	learn: 0.2343449	total: 27.2s	remaining: 1m 44s
103:	learn: 0.2342085	total: 27.4s	remaining: 1m 44s
104:	learn: 0.2339949	total: 27.7s	remaining: 1m 44s
105:	learn: 0.2338112	total: 28s	remaining: 1m 43s
106:	learn: 0.2337295	total: 28.3s	remaining: 1m 43s
107:	learn: 0.2336751	total: 28.5s	remaining: 1m 43s
108:	learn: 0.2336620	total: 28.8s	remaining: 1m 43s
109:	learn: 0.2334814	total: 29.1s	remaining: 1m 43s
110:	learn: 0.2334388	total: 29.4s	remaining: 1m 42s
111:	learn: 0.2331780	total: 29.7s	remaining: 1m 42s
112:	learn: 0.2329888	total: 30s	remaining: 1m 42s
113:	learn: 0.2329447	total: 30.2s	remaining: 1m 42s
114:	learn: 0.2327892	total: 30.5s	remaining: 1m 42s
115:	learn: 0.2327271	total: 30.8s	remaining: 1m 41s
116:	learn: 0.2326796	total: 31.1s	remaining: 1m 41s
117:	learn: 0.2325796	total: 31.4s	remaining: 1m 41s
118:	learn: 0.2324229	total: 31.6s	remaining: 1m 41s
119:	learn: 0.2323929	total: 31.9s	remaining: 1m 40s
120:	learn: 0.2323561	total: 32.2s	remaining: 1m 40s
121:	learn: 0.2322253	total: 32.4s	remaining: 1m 40s
122:	learn: 0.2320841	total: 32.7s	remaining: 1m 40s
123:	learn: 0.2308373	total: 33s	remaining: 1m 39s
124:	learn: 0.2306694	total: 33.3s	remaining: 1m 39s
125:	learn: 0.2305839	total: 33.6s	remaining: 1m 39s
126:	learn: 0.2304271	total: 33.8s	remaining: 1m 39s
127:	learn: 0.2303243	total: 34.1s	remaining: 1m 39s
128:	learn: 0.2300876	total: 34.4s	remaining: 1m 39s
129:	learn: 0.2300017	total: 34.7s	remaining: 1m 38s
130:	learn: 0.2296783	total: 35s	remaining: 1m 38s
131:	learn: 0.2296120	total: 35.2s	remaining: 1m 38s
132:	learn: 0.2293994	total: 35.5s	remaining: 1m 38s
133:	learn: 0.2293413	total: 35.8s	remaining: 1m 37s
134:	learn: 0.2288610	total: 36.1s	remaining: 1m 37s
135:	learn: 0.2287326	total: 36.3s	remaining: 1m 37s

136:	learn: 0.2286223	total: 36.6s	remaining: 1m 36s
137:	learn: 0.2284837	total: 36.9s	remaining: 1m 36s
138:	learn: 0.2283908	total: 37.1s	remaining: 1m 36s
139:	learn: 0.2282806	total: 37.4s	remaining: 1m 36s
140:	learn: 0.2282416	total: 37.7s	remaining: 1m 35s
141:	learn: 0.2279419	total: 38s	remaining: 1m 35s
142:	learn: 0.2278529	total: 38.3s	remaining: 1m 35s
143:	learn: 0.2278026	total: 38.5s	remaining: 1m 35s
144:	learn: 0.2276672	total: 38.7s	remaining: 1m 34s
145:	learn: 0.2274438	total: 39s	remaining: 1m 34s
146:	learn: 0.2274036	total: 39.2s	remaining: 1m 34s
147:	learn: 0.2273436	total: 39.5s	remaining: 1m 33s
148:	learn: 0.2272880	total: 39.7s	remaining: 1m 33s
149:	learn: 0.2272619	total: 39.9s	remaining: 1m 33s
150:	learn: 0.2270839	total: 40.2s	remaining: 1m 32s
151:	learn: 0.2269960	total: 40.4s	remaining: 1m 32s
152:	learn: 0.2269426	total: 40.7s	remaining: 1m 32s
153:	learn: 0.2263586	total: 40.9s	remaining: 1m 31s
154:	learn: 0.2262772	total: 41.2s	remaining: 1m 31s
155:	learn: 0.2262337	total: 41.4s	remaining: 1m 31s
156:	learn: 0.2260874	total: 41.7s	remaining: 1m 31s
157:	learn: 0.2257825	total: 41.9s	remaining: 1m 30s
158:	learn: 0.2256989	total: 42.2s	remaining: 1m 30s
159:	learn: 0.2256612	total: 42.4s	remaining: 1m 30s
160:	learn: 0.2255717	total: 42.7s	remaining: 1m 29s
161:	learn: 0.2255095	total: 42.9s	remaining: 1m 29s
162:	learn: 0.2254530	total: 43.2s	remaining: 1m 29s
163:	learn: 0.2253974	total: 43.4s	remaining: 1m 28s
164:	learn: 0.2253747	total: 43.7s	remaining: 1m 28s
165:	learn: 0.2253076	total: 43.9s	remaining: 1m 28s
166:	learn: 0.2252101	total: 44.2s	remaining: 1m 28s
167:	learn: 0.2251474	total: 44.5s	remaining: 1m 27s
168:	learn: 0.2250892	total: 44.8s	remaining: 1m 27s
169:	learn: 0.2250182	total: 45s	remaining: 1m 27s
170:	learn: 0.2249610	total: 45.3s	remaining: 1m 27s
171:	learn: 0.2248686	total: 45.5s	remaining: 1m 26s
172:	learn: 0.2248199	total: 45.8s	remaining: 1m 26s
173:	learn: 0.2247002	total: 46.1s	remaining: 1m 26s
174:	learn: 0.2246479	total: 46.3s	remaining: 1m 25s
175:	learn: 0.2245358	total: 46.6s	remaining: 1m 25s
176:	learn: 0.2243989	total: 46.8s	remaining: 1m 25s
177:	learn: 0.2243241	total: 47.1s	remaining: 1m 25s
178:	learn: 0.2241607	total: 47.4s	remaining: 1m 24s
179:	learn: 0.2241023	total: 47.6s	remaining: 1m 24s
180:	learn: 0.2240128	total: 47.9s	remaining: 1m 24s
181:	learn: 0.2239604	total: 48.2s	remaining: 1m 24s
182:	learn: 0.2239225	total: 48.5s	remaining: 1m 23s
183:	learn: 0.2238609	total: 48.7s	remaining: 1m 23s

184:	learn: 0.2237571	total: 49s	remaining: 1m 23s
185:	learn: 0.2236245	total: 49.3s	remaining: 1m 23s
186:	learn: 0.2234958	total: 49.5s	remaining: 1m 22s
187:	learn: 0.2233162	total: 49.9s	remaining: 1m 22s
188:	learn: 0.2232068	total: 50.1s	remaining: 1m 22s
189:	learn: 0.2231472	total: 50.4s	remaining: 1m 22s
190:	learn: 0.2230676	total: 50.7s	remaining: 1m 22s
191:	learn: 0.2229722	total: 51s	remaining: 1m 21s
192:	learn: 0.2229106	total: 51.3s	remaining: 1m 21s
193:	learn: 0.2228161	total: 51.6s	remaining: 1m 21s
194:	learn: 0.2227958	total: 51.8s	remaining: 1m 21s
195:	learn: 0.2226840	total: 52.1s	remaining: 1m 20s
196:	learn: 0.2225655	total: 52.4s	remaining: 1m 20s
197:	learn: 0.2224680	total: 52.6s	remaining: 1m 20s
198:	learn: 0.2224654	total: 52.9s	remaining: 1m 20s
199:	learn: 0.2224026	total: 53.2s	remaining: 1m 19s
200:	learn: 0.2223019	total: 53.5s	remaining: 1m 19s
201:	learn: 0.2222248	total: 53.7s	remaining: 1m 19s
202:	learn: 0.2221079	total: 54s	remaining: 1m 19s
203:	learn: 0.2219681	total: 54.3s	remaining: 1m 18s
204:	learn: 0.2218856	total: 54.6s	remaining: 1m 18s
205:	learn: 0.2218491	total: 54.9s	remaining: 1m 18s
206:	learn: 0.2218343	total: 55.2s	remaining: 1m 18s
207:	learn: 0.2216607	total: 55.4s	remaining: 1m 17s
208:	learn: 0.2216071	total: 55.7s	remaining: 1m 17s
209:	learn: 0.2215557	total: 55.9s	remaining: 1m 17s
210:	learn: 0.2208874	total: 56.2s	remaining: 1m 17s
211:	learn: 0.2203910	total: 56.5s	remaining: 1m 16s
212:	learn: 0.2203011	total: 56.7s	remaining: 1m 16s
213:	learn: 0.2202890	total: 57s	remaining: 1m 16s
214:	learn: 0.2201850	total: 57.3s	remaining: 1m 15s
215:	learn: 0.2200826	total: 57.5s	remaining: 1m 15s
216:	learn: 0.2200086	total: 57.7s	remaining: 1m 15s
217:	learn: 0.2199469	total: 57.9s	remaining: 1m 14s
218:	learn: 0.2199089	total: 58.2s	remaining: 1m 14s
219:	learn: 0.2198515	total: 58.3s	remaining: 1m 14s
220:	learn: 0.2197840	total: 58.5s	remaining: 1m 13s
221:	learn: 0.2196987	total: 58.7s	remaining: 1m 13s
222:	learn: 0.2196211	total: 58.9s	remaining: 1m 13s
223:	learn: 0.2195198	total: 59.1s	remaining: 1m 12s
224:	learn: 0.2194020	total: 59.3s	remaining: 1m 12s
225:	learn: 0.2192882	total: 59.6s	remaining: 1m 12s
226:	learn: 0.2192109	total: 59.8s	remaining: 1m 11s
227:	learn: 0.2190858	total: 60s	remaining: 1m 11s
228:	learn: 0.2189924	total: 1m	remaining: 1m 11s
229:	learn: 0.2189388	total: 1m	remaining: 1m 10s
230:	learn: 0.2189124	total: 1m	remaining: 1m 10s
231:	learn: 0.2188621	total: 1m	remaining: 1m 10s

232:	learn: 0.2188035	total: 1m 1s	remaining: 1m 10s
233:	learn: 0.2187819	total: 1m 1s	remaining: 1m 9s
234:	learn: 0.2187534	total: 1m 1s	remaining: 1m 9s
235:	learn: 0.2187140	total: 1m 1s	remaining: 1m 9s
236:	learn: 0.2186991	total: 1m 2s	remaining: 1m 9s
237:	learn: 0.2182658	total: 1m 2s	remaining: 1m 8s
238:	learn: 0.2182352	total: 1m 2s	remaining: 1m 8s
239:	learn: 0.2181731	total: 1m 3s	remaining: 1m 8s
240:	learn: 0.2181194	total: 1m 3s	remaining: 1m 8s
241:	learn: 0.2180180	total: 1m 3s	remaining: 1m 7s
242:	learn: 0.2179369	total: 1m 3s	remaining: 1m 7s
243:	learn: 0.2178985	total: 1m 4s	remaining: 1m 7s
244:	learn: 0.2178690	total: 1m 4s	remaining: 1m 7s
245:	learn: 0.2178242	total: 1m 4s	remaining: 1m 6s
246:	learn: 0.2177908	total: 1m 5s	remaining: 1m 6s
247:	learn: 0.2177178	total: 1m 5s	remaining: 1m 6s
248:	learn: 0.2176789	total: 1m 5s	remaining: 1m 6s
249:	learn: 0.2176016	total: 1m 5s	remaining: 1m 5s
250:	learn: 0.2175339	total: 1m 6s	remaining: 1m 5s
251:	learn: 0.2174865	total: 1m 6s	remaining: 1m 5s
252:	learn: 0.2173939	total: 1m 6s	remaining: 1m 5s
253:	learn: 0.2173589	total: 1m 7s	remaining: 1m 4s
254:	learn: 0.2173144	total: 1m 7s	remaining: 1m 4s
255:	learn: 0.2172922	total: 1m 7s	remaining: 1m 4s
256:	learn: 0.2172099	total: 1m 7s	remaining: 1m 4s
257:	learn: 0.2171197	total: 1m 8s	remaining: 1m 3s
258:	learn: 0.2170331	total: 1m 8s	remaining: 1m 3s
259:	learn: 0.2168890	total: 1m 8s	remaining: 1m 3s
260:	learn: 0.2168652	total: 1m 9s	remaining: 1m 3s
261:	learn: 0.2168038	total: 1m 9s	remaining: 1m 2s
262:	learn: 0.2167511	total: 1m 9s	remaining: 1m 2s
263:	learn: 0.2166783	total: 1m 9s	remaining: 1m 2s
264:	learn: 0.2166303	total: 1m 10s	remaining: 1m 2s
265:	learn: 0.2166299	total: 1m 10s	remaining: 1m 1s
266:	learn: 0.2166004	total: 1m 10s	remaining: 1m 1s
267:	learn: 0.2165516	total: 1m 10s	remaining: 1m 1s
268:	learn: 0.2164170	total: 1m 11s	remaining: 1m
269:	learn: 0.2162452	total: 1m 11s	remaining: 1m
270:	learn: 0.2161735	total: 1m 11s	remaining: 1m
271:	learn: 0.2159653	total: 1m 11s	remaining: 1m
272:	learn: 0.2159466	total: 1m 12s	remaining: 59.9s
273:	learn: 0.2159121	total: 1m 12s	remaining: 59.7s
274:	learn: 0.2158433	total: 1m 12s	remaining: 59.4s
275:	learn: 0.2158057	total: 1m 12s	remaining: 59.1s
276:	learn: 0.2157326	total: 1m 13s	remaining: 58.8s
277:	learn: 0.2157014	total: 1m 13s	remaining: 58.6s
278:	learn: 0.2156657	total: 1m 13s	remaining: 58.3s
279:	learn: 0.2156045	total: 1m 13s	remaining: 58s

280:	learn: 0.2155737	total: 1m 14s	remaining: 57.8s
281:	learn: 0.2155351	total: 1m 14s	remaining: 57.5s
282:	learn: 0.2154239	total: 1m 14s	remaining: 57.2s
283:	learn: 0.2153262	total: 1m 14s	remaining: 56.9s
284:	learn: 0.2152557	total: 1m 15s	remaining: 56.6s
285:	learn: 0.2152206	total: 1m 15s	remaining: 56.4s
286:	learn: 0.2150998	total: 1m 15s	remaining: 56.1s
287:	learn: 0.2149906	total: 1m 15s	remaining: 55.9s
288:	learn: 0.2149794	total: 1m 16s	remaining: 55.6s
289:	learn: 0.2149098	total: 1m 16s	remaining: 55.4s
290:	learn: 0.2148812	total: 1m 16s	remaining: 55.1s
291:	learn: 0.2148091	total: 1m 17s	remaining: 54.9s
292:	learn: 0.2147829	total: 1m 17s	remaining: 54.6s
293:	learn: 0.2147042	total: 1m 17s	remaining: 54.3s
294:	learn: 0.2146195	total: 1m 17s	remaining: 54.1s
295:	learn: 0.2145198	total: 1m 18s	remaining: 53.8s
296:	learn: 0.2144627	total: 1m 18s	remaining: 53.6s
297:	learn: 0.2142955	total: 1m 18s	remaining: 53.3s
298:	learn: 0.2142234	total: 1m 18s	remaining: 53s
299:	learn: 0.2141567	total: 1m 19s	remaining: 52.8s
300:	learn: 0.2141114	total: 1m 19s	remaining: 52.5s
301:	learn: 0.2139661	total: 1m 19s	remaining: 52.3s
302:	learn: 0.2139047	total: 1m 19s	remaining: 52s
303:	learn: 0.2138271	total: 1m 20s	remaining: 51.7s
304:	learn: 0.2137691	total: 1m 20s	remaining: 51.5s
305:	learn: 0.2137199	total: 1m 20s	remaining: 51.2s
306:	learn: 0.2136775	total: 1m 21s	remaining: 51s
307:	learn: 0.2136172	total: 1m 21s	remaining: 50.7s
308:	learn: 0.2135917	total: 1m 21s	remaining: 50.4s
309:	learn: 0.2135425	total: 1m 21s	remaining: 50.2s
310:	learn: 0.2134874	total: 1m 22s	remaining: 49.9s
311:	learn: 0.2134604	total: 1m 22s	remaining: 49.6s
312:	learn: 0.2133757	total: 1m 22s	remaining: 49.4s
313:	learn: 0.2133168	total: 1m 22s	remaining: 49.2s
314:	learn: 0.2132636	total: 1m 23s	remaining: 48.9s
315:	learn: 0.2131699	total: 1m 23s	remaining: 48.6s
316:	learn: 0.2130728	total: 1m 23s	remaining: 48.4s
317:	learn: 0.2129801	total: 1m 24s	remaining: 48.1s
318:	learn: 0.2129549	total: 1m 24s	remaining: 47.8s
319:	learn: 0.2129164	total: 1m 24s	remaining: 47.6s
320:	learn: 0.2129019	total: 1m 24s	remaining: 47.3s
321:	learn: 0.2128718	total: 1m 25s	remaining: 47.1s
322:	learn: 0.2128265	total: 1m 25s	remaining: 46.8s
323:	learn: 0.2128188	total: 1m 25s	remaining: 46.6s
324:	learn: 0.2127510	total: 1m 26s	remaining: 46.3s
325:	learn: 0.2127362	total: 1m 26s	remaining: 46s
326:	learn: 0.2126630	total: 1m 26s	remaining: 45.8s
327:	learn: 0.2126078	total: 1m 26s	remaining: 45.5s

328:	learn: 0.2124895	total: 1m 27s	remaining: 45.2s
329:	learn: 0.2123550	total: 1m 27s	remaining: 44.9s
330:	learn: 0.2123008	total: 1m 27s	remaining: 44.7s
331:	learn: 0.2122559	total: 1m 27s	remaining: 44.4s
332:	learn: 0.2122336	total: 1m 27s	remaining: 44.1s
333:	learn: 0.2122114	total: 1m 28s	remaining: 43.8s
334:	learn: 0.2121984	total: 1m 28s	remaining: 43.6s
335:	learn: 0.2121391	total: 1m 28s	remaining: 43.3s
336:	learn: 0.2120998	total: 1m 28s	remaining: 43s
337:	learn: 0.2120895	total: 1m 29s	remaining: 42.8s
338:	learn: 0.2120372	total: 1m 29s	remaining: 42.5s
339:	learn: 0.2118826	total: 1m 29s	remaining: 42.2s
340:	learn: 0.2117857	total: 1m 29s	remaining: 42s
341:	learn: 0.2116567	total: 1m 30s	remaining: 41.7s
342:	learn: 0.2116022	total: 1m 30s	remaining: 41.5s
343:	learn: 0.2115639	total: 1m 30s	remaining: 41.2s
344:	learn: 0.2114878	total: 1m 31s	remaining: 40.9s
345:	learn: 0.2114759	total: 1m 31s	remaining: 40.6s
346:	learn: 0.2114439	total: 1m 31s	remaining: 40.4s
347:	learn: 0.2113865	total: 1m 31s	remaining: 40.1s
348:	learn: 0.2113211	total: 1m 32s	remaining: 39.9s
349:	learn: 0.2112121	total: 1m 32s	remaining: 39.6s
350:	learn: 0.2111853	total: 1m 32s	remaining: 39.3s
351:	learn: 0.2111277	total: 1m 32s	remaining: 39.1s
352:	learn: 0.2110258	total: 1m 33s	remaining: 38.8s
353:	learn: 0.2109983	total: 1m 33s	remaining: 38.6s
354:	learn: 0.2109208	total: 1m 33s	remaining: 38.3s
355:	learn: 0.2108056	total: 1m 34s	remaining: 38s
356:	learn: 0.2107242	total: 1m 34s	remaining: 37.8s
357:	learn: 0.2106808	total: 1m 34s	remaining: 37.5s
358:	learn: 0.2106311	total: 1m 34s	remaining: 37.3s
359:	learn: 0.2105106	total: 1m 35s	remaining: 37s
360:	learn: 0.2104897	total: 1m 35s	remaining: 36.7s
361:	learn: 0.2104568	total: 1m 35s	remaining: 36.5s
362:	learn: 0.2104265	total: 1m 35s	remaining: 36.2s
363:	learn: 0.2103692	total: 1m 36s	remaining: 36s
364:	learn: 0.2103388	total: 1m 36s	remaining: 35.7s
365:	learn: 0.2102876	total: 1m 36s	remaining: 35.4s
366:	learn: 0.2102823	total: 1m 37s	remaining: 35.2s
367:	learn: 0.2101914	total: 1m 37s	remaining: 34.9s
368:	learn: 0.2101327	total: 1m 37s	remaining: 34.7s
369:	learn: 0.2100417	total: 1m 37s	remaining: 34.4s
370:	learn: 0.2100066	total: 1m 38s	remaining: 34.1s
371:	learn: 0.2098517	total: 1m 38s	remaining: 33.9s
372:	learn: 0.2096762	total: 1m 38s	remaining: 33.6s
373:	learn: 0.2096371	total: 1m 38s	remaining: 33.3s
374:	learn: 0.2096096	total: 1m 39s	remaining: 33.1s
375:	learn: 0.2095224	total: 1m 39s	remaining: 32.8s

376:	learn: 0.2094745	total: 1m 39s	remaining: 32.5s
377:	learn: 0.2094017	total: 1m 40s	remaining: 32.3s
378:	learn: 0.2089803	total: 1m 40s	remaining: 32s
379:	learn: 0.2089225	total: 1m 40s	remaining: 31.8s
380:	learn: 0.2088357	total: 1m 40s	remaining: 31.5s
381:	learn: 0.2087194	total: 1m 41s	remaining: 31.2s
382:	learn: 0.2086580	total: 1m 41s	remaining: 31s
383:	learn: 0.2085617	total: 1m 41s	remaining: 30.7s
384:	learn: 0.2084801	total: 1m 41s	remaining: 30.4s
385:	learn: 0.2084319	total: 1m 42s	remaining: 30.2s
386:	learn: 0.2084153	total: 1m 42s	remaining: 29.9s
387:	learn: 0.2084060	total: 1m 42s	remaining: 29.7s
388:	learn: 0.2083615	total: 1m 43s	remaining: 29.4s
389:	learn: 0.2083020	total: 1m 43s	remaining: 29.1s
390:	learn: 0.2082550	total: 1m 43s	remaining: 28.8s
391:	learn: 0.2081963	total: 1m 43s	remaining: 28.6s
392:	learn: 0.2080166	total: 1m 44s	remaining: 28.3s
393:	learn: 0.2079668	total: 1m 44s	remaining: 28.1s
394:	learn: 0.2079360	total: 1m 44s	remaining: 27.8s
395:	learn: 0.2079043	total: 1m 44s	remaining: 27.5s
396:	learn: 0.2077886	total: 1m 45s	remaining: 27.2s
397:	learn: 0.2076991	total: 1m 45s	remaining: 27s
398:	learn: 0.2076508	total: 1m 45s	remaining: 26.7s
399:	learn: 0.2075320	total: 1m 45s	remaining: 26.4s
400:	learn: 0.2074896	total: 1m 46s	remaining: 26.2s
401:	learn: 0.2074566	total: 1m 46s	remaining: 25.9s
402:	learn: 0.2073049	total: 1m 46s	remaining: 25.6s
403:	learn: 0.2072493	total: 1m 46s	remaining: 25.4s
404:	learn: 0.2072181	total: 1m 47s	remaining: 25.1s
405:	learn: 0.2071150	total: 1m 47s	remaining: 24.8s
406:	learn: 0.2070964	total: 1m 47s	remaining: 24.6s
407:	learn: 0.2070428	total: 1m 47s	remaining: 24.3s
408:	learn: 0.2070211	total: 1m 48s	remaining: 24s
409:	learn: 0.2069305	total: 1m 48s	remaining: 23.8s
410:	learn: 0.2069156	total: 1m 48s	remaining: 23.5s
411:	learn: 0.2068785	total: 1m 48s	remaining: 23.2s
412:	learn: 0.2068564	total: 1m 49s	remaining: 23s
413:	learn: 0.2068316	total: 1m 49s	remaining: 22.7s
414:	learn: 0.2066658	total: 1m 49s	remaining: 22.4s
415:	learn: 0.2066259	total: 1m 49s	remaining: 22.2s
416:	learn: 0.2065578	total: 1m 50s	remaining: 21.9s
417:	learn: 0.2065122	total: 1m 50s	remaining: 21.6s
418:	learn: 0.2064388	total: 1m 50s	remaining: 21.4s
419:	learn: 0.2064250	total: 1m 50s	remaining: 21.1s
420:	learn: 0.2063759	total: 1m 51s	remaining: 20.9s
421:	learn: 0.2063208	total: 1m 51s	remaining: 20.6s
422:	learn: 0.2062815	total: 1m 51s	remaining: 20.3s
423:	learn: 0.2062316	total: 1m 51s	remaining: 20.1s

424:	learn: 0.2061819	total: 1m 52s	remaining: 19.8s
425:	learn: 0.2061469	total: 1m 52s	remaining: 19.5s
426:	learn: 0.2061012	total: 1m 52s	remaining: 19.3s
427:	learn: 0.2060710	total: 1m 52s	remaining: 19s
428:	learn: 0.2060139	total: 1m 53s	remaining: 18.7s
429:	learn: 0.2060008	total: 1m 53s	remaining: 18.5s
430:	learn: 0.2059700	total: 1m 53s	remaining: 18.2s
431:	learn: 0.2059124	total: 1m 54s	remaining: 18s
432:	learn: 0.2058205	total: 1m 54s	remaining: 17.7s
433:	learn: 0.2057407	total: 1m 54s	remaining: 17.4s
434:	learn: 0.2056494	total: 1m 54s	remaining: 17.2s
435:	learn: 0.2056199	total: 1m 55s	remaining: 16.9s
436:	learn: 0.2054785	total: 1m 55s	remaining: 16.6s
437:	learn: 0.2053112	total: 1m 55s	remaining: 16.4s
438:	learn: 0.2052665	total: 1m 55s	remaining: 16.1s
439:	learn: 0.2052177	total: 1m 56s	remaining: 15.9s
440:	learn: 0.2051584	total: 1m 56s	remaining: 15.6s
441:	learn: 0.2051094	total: 1m 56s	remaining: 15.3s
442:	learn: 0.2050655	total: 1m 57s	remaining: 15.1s
443:	learn: 0.2050117	total: 1m 57s	remaining: 14.8s
444:	learn: 0.2049911	total: 1m 57s	remaining: 14.5s
445:	learn: 0.2049056	total: 1m 57s	remaining: 14.3s
446:	learn: 0.2048014	total: 1m 58s	remaining: 14s
447:	learn: 0.2047209	total: 1m 58s	remaining: 13.8s
448:	learn: 0.2046809	total: 1m 58s	remaining: 13.5s
449:	learn: 0.2046480	total: 1m 59s	remaining: 13.2s
450:	learn: 0.2045859	total: 1m 59s	remaining: 13s
451:	learn: 0.2045684	total: 1m 59s	remaining: 12.7s
452:	learn: 0.2044835	total: 1m 59s	remaining: 12.4s
453:	learn: 0.2044618	total: 2m	remaining: 12.2s
454:	learn: 0.2043973	total: 2m	remaining: 11.9s
455:	learn: 0.2043213	total: 2m	remaining: 11.6s
456:	learn: 0.2042672	total: 2m	remaining: 11.4s
457:	learn: 0.2042223	total: 2m 1s	remaining: 11.1s
458:	learn: 0.2041858	total: 2m 1s	remaining: 10.8s
459:	learn: 0.2041445	total: 2m 1s	remaining: 10.6s
460:	learn: 0.2040827	total: 2m 1s	remaining: 10.3s
461:	learn: 0.2040412	total: 2m 2s	remaining: 10s
462:	learn: 0.2040259	total: 2m 2s	remaining: 9.77s
463:	learn: 0.2040086	total: 2m 2s	remaining: 9.51s
464:	learn: 0.2039765	total: 2m 2s	remaining: 9.24s
465:	learn: 0.2039477	total: 2m 2s	remaining: 8.97s
466:	learn: 0.2038659	total: 2m 3s	remaining: 8.71s
467:	learn: 0.2038540	total: 2m 3s	remaining: 8.45s
468:	learn: 0.2038206	total: 2m 3s	remaining: 8.18s
469:	learn: 0.2037455	total: 2m 4s	remaining: 7.92s
470:	learn: 0.2037365	total: 2m 4s	remaining: 7.66s
471:	learn: 0.2036490	total: 2m 4s	remaining: 7.39s

472:	learn: 0.2035202	total: 2m 4s	remaining: 7.13s
473:	learn: 0.2034393	total: 2m 5s	remaining: 6.87s
474:	learn: 0.2034069	total: 2m 5s	remaining: 6.6s
475:	learn: 0.2033733	total: 2m 5s	remaining: 6.34s
476:	learn: 0.2032745	total: 2m 6s	remaining: 6.08s
477:	learn: 0.2032611	total: 2m 6s	remaining: 5.81s
478:	learn: 0.2031315	total: 2m 6s	remaining: 5.55s
479:	learn: 0.2030792	total: 2m 6s	remaining: 5.29s
480:	learn: 0.2029667	total: 2m 7s	remaining: 5.02s
481:	learn: 0.2029191	total: 2m 7s	remaining: 4.76s
482:	learn: 0.2028464	total: 2m 7s	remaining: 4.5s
483:	learn: 0.2028121	total: 2m 8s	remaining: 4.23s
484:	learn: 0.2027518	total: 2m 8s	remaining: 3.97s
485:	learn: 0.2027253	total: 2m 8s	remaining: 3.7s
486:	learn: 0.2026918	total: 2m 8s	remaining: 3.44s
487:	learn: 0.2026360	total: 2m 9s	remaining: 3.17s
488:	learn: 0.2025277	total: 2m 9s	remaining: 2.91s
489:	learn: 0.2024936	total: 2m 9s	remaining: 2.65s
490:	learn: 0.2024639	total: 2m 9s	remaining: 2.38s
491:	learn: 0.2024409	total: 2m 10s	remaining: 2.12s
492:	learn: 0.2024010	total: 2m 10s	remaining: 1.85s
493:	learn: 0.2023218	total: 2m 10s	remaining: 1.59s
494:	learn: 0.2022547	total: 2m 11s	remaining: 1.32s
495:	learn: 0.2021698	total: 2m 11s	remaining: 1.06s
496:	learn: 0.2021021	total: 2m 11s	remaining: 794ms
497:	learn: 0.2020647	total: 2m 11s	remaining: 529ms
498:	learn: 0.2020544	total: 2m 12s	remaining: 265ms
499:	learn: 0.2020102	total: 2m 12s	remaining: 0us

Learning rate set to 0.174288

0:	learn: 0.9715735	total: 286ms	remaining: 2m 22s
1:	learn: 0.8882029	total: 552ms	remaining: 2m 17s
2:	learn: 0.8310136	total: 821ms	remaining: 2m 16s
3:	learn: 0.7862810	total: 1.01s	remaining: 2m 5s
4:	learn: 0.7091513	total: 1.21s	remaining: 1m 59s
5:	learn: 0.6170511	total: 1.41s	remaining: 1m 56s
6:	learn: 0.5966323	total: 1.6s	remaining: 1m 52s
7:	learn: 0.5365121	total: 1.81s	remaining: 1m 51s
8:	learn: 0.4951500	total: 2.02s	remaining: 1m 50s
9:	learn: 0.4608515	total: 2.21s	remaining: 1m 48s
10:	learn: 0.4305015	total: 2.4s	remaining: 1m 46s
11:	learn: 0.4124719	total: 2.6s	remaining: 1m 45s
12:	learn: 0.3924065	total: 2.78s	remaining: 1m 44s
13:	learn: 0.3776396	total: 2.97s	remaining: 1m 43s
14:	learn: 0.3634650	total: 3.15s	remaining: 1m 41s
15:	learn: 0.3519140	total: 3.39s	remaining: 1m 42s
16:	learn: 0.3359114	total: 3.66s	remaining: 1m 43s
17:	learn: 0.3211985	total: 3.91s	remaining: 1m 44s
18:	learn: 0.3104417	total: 4.17s	remaining: 1m 45s

19:	learn: 0.3005192	total: 4.42s	remaining: 1m 46s
20:	learn: 0.2978514	total: 4.67s	remaining: 1m 46s
21:	learn: 0.2904026	total: 4.91s	remaining: 1m 46s
22:	learn: 0.2892103	total: 5.16s	remaining: 1m 46s
23:	learn: 0.2831094	total: 5.41s	remaining: 1m 47s
24:	learn: 0.2811030	total: 5.67s	remaining: 1m 47s
25:	learn: 0.2798990	total: 5.91s	remaining: 1m 47s
26:	learn: 0.2751001	total: 6.2s	remaining: 1m 48s
27:	learn: 0.2721080	total: 6.51s	remaining: 1m 49s
28:	learn: 0.2694556	total: 6.8s	remaining: 1m 50s
29:	learn: 0.2686503	total: 7.1s	remaining: 1m 51s
30:	learn: 0.2679921	total: 7.39s	remaining: 1m 51s
31:	learn: 0.2627114	total: 7.65s	remaining: 1m 51s
32:	learn: 0.2622660	total: 7.95s	remaining: 1m 52s
33:	learn: 0.2604819	total: 8.22s	remaining: 1m 52s
34:	learn: 0.2596544	total: 8.49s	remaining: 1m 52s
35:	learn: 0.2588692	total: 8.78s	remaining: 1m 53s
36:	learn: 0.2585634	total: 9.02s	remaining: 1m 52s
37:	learn: 0.2550819	total: 9.35s	remaining: 1m 53s
38:	learn: 0.2519456	total: 9.65s	remaining: 1m 54s
39:	learn: 0.2516739	total: 9.94s	remaining: 1m 54s
40:	learn: 0.2506052	total: 10.2s	remaining: 1m 54s
41:	learn: 0.2502679	total: 10.5s	remaining: 1m 54s
42:	learn: 0.2499651	total: 10.8s	remaining: 1m 54s
43:	learn: 0.2493361	total: 11.1s	remaining: 1m 54s
44:	learn: 0.2490098	total: 11.3s	remaining: 1m 54s
45:	learn: 0.2486049	total: 11.6s	remaining: 1m 54s
46:	learn: 0.2481519	total: 11.9s	remaining: 1m 54s
47:	learn: 0.2478838	total: 12.2s	remaining: 1m 54s
48:	learn: 0.2465021	total: 12.5s	remaining: 1m 54s
49:	learn: 0.2455528	total: 12.7s	remaining: 1m 54s
50:	learn: 0.2453342	total: 13s	remaining: 1m 54s
51:	learn: 0.2451205	total: 13.3s	remaining: 1m 54s
52:	learn: 0.2446764	total: 13.5s	remaining: 1m 54s
53:	learn: 0.2428651	total: 13.8s	remaining: 1m 54s
54:	learn: 0.2419923	total: 14.1s	remaining: 1m 54s
55:	learn: 0.2418072	total: 14.5s	remaining: 1m 54s
56:	learn: 0.2415039	total: 14.8s	remaining: 1m 54s
57:	learn: 0.2410273	total: 15.1s	remaining: 1m 54s
58:	learn: 0.2406579	total: 15.3s	remaining: 1m 54s
59:	learn: 0.2404790	total: 15.6s	remaining: 1m 54s
60:	learn: 0.2403117	total: 15.9s	remaining: 1m 54s
61:	learn: 0.2402274	total: 16.2s	remaining: 1m 54s
62:	learn: 0.2398588	total: 16.4s	remaining: 1m 54s
63:	learn: 0.2395273	total: 16.7s	remaining: 1m 53s
64:	learn: 0.2393764	total: 17s	remaining: 1m 53s
65:	learn: 0.2389981	total: 17.3s	remaining: 1m 53s
66:	learn: 0.2388873	total: 17.5s	remaining: 1m 53s

67:	learn: 0.2387017	total: 17.8s	remaining: 1m 52s
68:	learn: 0.2385010	total: 18s	remaining: 1m 52s
69:	learn: 0.2381343	total: 18.3s	remaining: 1m 52s
70:	learn: 0.2380210	total: 18.5s	remaining: 1m 51s
71:	learn: 0.2373236	total: 18.8s	remaining: 1m 51s
72:	learn: 0.2370921	total: 19s	remaining: 1m 51s
73:	learn: 0.2369840	total: 19.3s	remaining: 1m 51s
74:	learn: 0.2367666	total: 19.6s	remaining: 1m 50s
75:	learn: 0.2365016	total: 19.8s	remaining: 1m 50s
76:	learn: 0.2363745	total: 20.1s	remaining: 1m 50s
77:	learn: 0.2363321	total: 20.3s	remaining: 1m 49s
78:	learn: 0.2361909	total: 20.6s	remaining: 1m 49s
79:	learn: 0.2359557	total: 20.8s	remaining: 1m 49s
80:	learn: 0.2355358	total: 21.1s	remaining: 1m 48s
81:	learn: 0.2349577	total: 21.3s	remaining: 1m 48s
82:	learn: 0.2347935	total: 21.6s	remaining: 1m 48s
83:	learn: 0.2346438	total: 21.9s	remaining: 1m 48s
84:	learn: 0.2343023	total: 22.1s	remaining: 1m 47s
85:	learn: 0.2329121	total: 22.4s	remaining: 1m 47s
86:	learn: 0.2327164	total: 22.7s	remaining: 1m 47s
87:	learn: 0.2324955	total: 23s	remaining: 1m 47s
88:	learn: 0.2323121	total: 23.3s	remaining: 1m 47s
89:	learn: 0.2322734	total: 23.5s	remaining: 1m 47s
90:	learn: 0.2321335	total: 23.8s	remaining: 1m 46s
91:	learn: 0.2320289	total: 24s	remaining: 1m 46s
92:	learn: 0.2319326	total: 24.3s	remaining: 1m 46s
93:	learn: 0.2318728	total: 24.6s	remaining: 1m 46s
94:	learn: 0.2317716	total: 24.8s	remaining: 1m 45s
95:	learn: 0.2316745	total: 25.1s	remaining: 1m 45s
96:	learn: 0.2315126	total: 25.4s	remaining: 1m 45s
97:	learn: 0.2314017	total: 25.7s	remaining: 1m 45s
98:	learn: 0.2312894	total: 26s	remaining: 1m 45s
99:	learn: 0.2312284	total: 26.2s	remaining: 1m 44s
100:	learn: 0.2310968	total: 26.5s	remaining: 1m 44s
101:	learn: 0.2308139	total: 26.8s	remaining: 1m 44s
102:	learn: 0.2307254	total: 27s	remaining: 1m 44s
103:	learn: 0.2306700	total: 27.3s	remaining: 1m 43s
104:	learn: 0.2305878	total: 27.5s	remaining: 1m 43s
105:	learn: 0.2299903	total: 27.8s	remaining: 1m 43s
106:	learn: 0.2298918	total: 28.1s	remaining: 1m 43s
107:	learn: 0.2298314	total: 28.4s	remaining: 1m 42s
108:	learn: 0.2297220	total: 28.6s	remaining: 1m 42s
109:	learn: 0.2296630	total: 28.9s	remaining: 1m 42s
110:	learn: 0.2295710	total: 29.2s	remaining: 1m 42s
111:	learn: 0.2294414	total: 29.5s	remaining: 1m 42s
112:	learn: 0.2291312	total: 29.7s	remaining: 1m 41s
113:	learn: 0.2289337	total: 30s	remaining: 1m 41s
114:	learn: 0.2287365	total: 30.3s	remaining: 1m 41s

115:	learn: 0.2286403	total: 30.5s	remaining: 1m 41s
116:	learn: 0.2285011	total: 30.8s	remaining: 1m 40s
117:	learn: 0.2284413	total: 31.1s	remaining: 1m 40s
118:	learn: 0.2283945	total: 31.4s	remaining: 1m 40s
119:	learn: 0.2282925	total: 31.7s	remaining: 1m 40s
120:	learn: 0.2282179	total: 32s	remaining: 1m 40s
121:	learn: 0.2281989	total: 32.2s	remaining: 1m 39s
122:	learn: 0.2281239	total: 32.5s	remaining: 1m 39s
123:	learn: 0.2280768	total: 32.7s	remaining: 1m 39s
124:	learn: 0.2278446	total: 33s	remaining: 1m 38s
125:	learn: 0.2277169	total: 33.3s	remaining: 1m 38s
126:	learn: 0.2276078	total: 33.5s	remaining: 1m 38s
127:	learn: 0.2275835	total: 33.7s	remaining: 1m 38s
128:	learn: 0.2275217	total: 34s	remaining: 1m 37s
129:	learn: 0.2273246	total: 34.2s	remaining: 1m 37s
130:	learn: 0.2272332	total: 34.5s	remaining: 1m 37s
131:	learn: 0.2271415	total: 34.7s	remaining: 1m 36s
132:	learn: 0.2270208	total: 34.9s	remaining: 1m 36s
133:	learn: 0.2269520	total: 35.2s	remaining: 1m 36s
134:	learn: 0.2267788	total: 35.4s	remaining: 1m 35s
135:	learn: 0.2267508	total: 35.7s	remaining: 1m 35s
136:	learn: 0.2266707	total: 36s	remaining: 1m 35s
137:	learn: 0.2265383	total: 36.2s	remaining: 1m 34s
138:	learn: 0.2264273	total: 36.4s	remaining: 1m 34s
139:	learn: 0.2264073	total: 36.7s	remaining: 1m 34s
140:	learn: 0.2262668	total: 37s	remaining: 1m 34s
141:	learn: 0.2262008	total: 37.2s	remaining: 1m 33s
142:	learn: 0.2260754	total: 37.5s	remaining: 1m 33s
143:	learn: 0.2258695	total: 37.7s	remaining: 1m 33s
144:	learn: 0.2256583	total: 38s	remaining: 1m 32s
145:	learn: 0.2256133	total: 38.2s	remaining: 1m 32s
146:	learn: 0.2254943	total: 38.5s	remaining: 1m 32s
147:	learn: 0.2252821	total: 38.8s	remaining: 1m 32s
148:	learn: 0.2251924	total: 39s	remaining: 1m 31s
149:	learn: 0.2249524	total: 39.2s	remaining: 1m 31s
150:	learn: 0.2248629	total: 39.4s	remaining: 1m 31s
151:	learn: 0.2247152	total: 39.6s	remaining: 1m 30s
152:	learn: 0.2246337	total: 39.8s	remaining: 1m 30s
153:	learn: 0.2244328	total: 40s	remaining: 1m 29s
154:	learn: 0.2242830	total: 40.3s	remaining: 1m 29s
155:	learn: 0.2242344	total: 40.5s	remaining: 1m 29s
156:	learn: 0.2241926	total: 40.7s	remaining: 1m 28s
157:	learn: 0.2241358	total: 40.8s	remaining: 1m 28s
158:	learn: 0.2240637	total: 41.1s	remaining: 1m 28s
159:	learn: 0.2239602	total: 41.3s	remaining: 1m 27s
160:	learn: 0.2237830	total: 41.5s	remaining: 1m 27s
161:	learn: 0.2237213	total: 41.8s	remaining: 1m 27s
162:	learn: 0.2235435	total: 42.1s	remaining: 1m 26s

163:	learn: 0.2233899	total: 42.3s	remaining: 1m 26s
164:	learn: 0.2233369	total: 42.6s	remaining: 1m 26s
165:	learn: 0.2232472	total: 42.9s	remaining: 1m 26s
166:	learn: 0.2231417	total: 43.2s	remaining: 1m 26s
167:	learn: 0.2230911	total: 43.5s	remaining: 1m 25s
168:	learn: 0.2230607	total: 43.7s	remaining: 1m 25s
169:	learn: 0.2229879	total: 44s	remaining: 1m 25s
170:	learn: 0.2229636	total: 44.3s	remaining: 1m 25s
171:	learn: 0.2229495	total: 44.5s	remaining: 1m 24s
172:	learn: 0.2229252	total: 44.8s	remaining: 1m 24s
173:	learn: 0.2228467	total: 45.1s	remaining: 1m 24s
174:	learn: 0.2227479	total: 45.4s	remaining: 1m 24s
175:	learn: 0.2226783	total: 45.6s	remaining: 1m 24s
176:	learn: 0.2226239	total: 45.9s	remaining: 1m 23s
177:	learn: 0.2225725	total: 46.2s	remaining: 1m 23s
178:	learn: 0.2225193	total: 46.5s	remaining: 1m 23s
179:	learn: 0.2224761	total: 46.8s	remaining: 1m 23s
180:	learn: 0.2223428	total: 47s	remaining: 1m 22s
181:	learn: 0.2221496	total: 47.3s	remaining: 1m 22s
182:	learn: 0.2220838	total: 47.6s	remaining: 1m 22s
183:	learn: 0.2220081	total: 47.9s	remaining: 1m 22s
184:	learn: 0.2219414	total: 48.2s	remaining: 1m 22s
185:	learn: 0.2218792	total: 48.4s	remaining: 1m 21s
186:	learn: 0.2218541	total: 48.7s	remaining: 1m 21s
187:	learn: 0.2217299	total: 48.9s	remaining: 1m 21s
188:	learn: 0.2216448	total: 49.2s	remaining: 1m 20s
189:	learn: 0.2215881	total: 49.5s	remaining: 1m 20s
190:	learn: 0.2214041	total: 49.7s	remaining: 1m 20s
191:	learn: 0.2213442	total: 50s	remaining: 1m 20s
192:	learn: 0.2212752	total: 50.3s	remaining: 1m 19s
193:	learn: 0.2211861	total: 50.5s	remaining: 1m 19s
194:	learn: 0.2211363	total: 50.7s	remaining: 1m 19s
195:	learn: 0.2210646	total: 51s	remaining: 1m 19s
196:	learn: 0.2210274	total: 51.2s	remaining: 1m 18s
197:	learn: 0.2209678	total: 51.4s	remaining: 1m 18s
198:	learn: 0.2209447	total: 51.7s	remaining: 1m 18s
199:	learn: 0.2207790	total: 51.9s	remaining: 1m 17s
200:	learn: 0.2200653	total: 52.2s	remaining: 1m 17s
201:	learn: 0.2199052	total: 52.5s	remaining: 1m 17s
202:	learn: 0.2197631	total: 52.8s	remaining: 1m 17s
203:	learn: 0.2196707	total: 53s	remaining: 1m 16s
204:	learn: 0.2196537	total: 53.3s	remaining: 1m 16s
205:	learn: 0.2195680	total: 53.5s	remaining: 1m 16s
206:	learn: 0.2194999	total: 53.8s	remaining: 1m 16s
207:	learn: 0.2194588	total: 54s	remaining: 1m 15s
208:	learn: 0.2193748	total: 54.3s	remaining: 1m 15s
209:	learn: 0.2191133	total: 54.6s	remaining: 1m 15s
210:	learn: 0.2190629	total: 54.9s	remaining: 1m 15s

211:	learn: 0.2189975	total: 55.1s	remaining: 1m 14s
212:	learn: 0.2187845	total: 55.5s	remaining: 1m 14s
213:	learn: 0.2185955	total: 55.7s	remaining: 1m 14s
214:	learn: 0.2185763	total: 56s	remaining: 1m 14s
215:	learn: 0.2184570	total: 56.3s	remaining: 1m 13s
216:	learn: 0.2184251	total: 56.5s	remaining: 1m 13s
217:	learn: 0.2183301	total: 56.8s	remaining: 1m 13s
218:	learn: 0.2182832	total: 57.1s	remaining: 1m 13s
219:	learn: 0.2182246	total: 57.3s	remaining: 1m 12s
220:	learn: 0.2181768	total: 57.5s	remaining: 1m 12s
221:	learn: 0.2180938	total: 57.8s	remaining: 1m 12s
222:	learn: 0.2179943	total: 58.1s	remaining: 1m 12s
223:	learn: 0.2179169	total: 58.4s	remaining: 1m 11s
224:	learn: 0.2178583	total: 58.6s	remaining: 1m 11s
225:	learn: 0.2178186	total: 58.9s	remaining: 1m 11s
226:	learn: 0.2177215	total: 59.2s	remaining: 1m 11s
227:	learn: 0.2176538	total: 59.5s	remaining: 1m 10s
228:	learn: 0.2176152	total: 59.8s	remaining: 1m 10s
229:	learn: 0.2174291	total: 1m	remaining: 1m 10s
230:	learn: 0.2171527	total: 1m	remaining: 1m 10s
231:	learn: 0.2171048	total: 1m	remaining: 1m 10s
232:	learn: 0.2170977	total: 1m	remaining: 1m 9s
233:	learn: 0.2168381	total: 1m 1s	remaining: 1m 9s
234:	learn: 0.2167720	total: 1m 1s	remaining: 1m 9s
235:	learn: 0.2166683	total: 1m 1s	remaining: 1m 9s
236:	learn: 0.2165765	total: 1m 2s	remaining: 1m 8s
237:	learn: 0.2165171	total: 1m 2s	remaining: 1m 8s
238:	learn: 0.2164725	total: 1m 2s	remaining: 1m 8s
239:	learn: 0.2163390	total: 1m 2s	remaining: 1m 8s
240:	learn: 0.2162838	total: 1m 3s	remaining: 1m 7s
241:	learn: 0.2162256	total: 1m 3s	remaining: 1m 7s
242:	learn: 0.2161693	total: 1m 3s	remaining: 1m 7s
243:	learn: 0.2160464	total: 1m 3s	remaining: 1m 7s
244:	learn: 0.2159721	total: 1m 4s	remaining: 1m 6s
245:	learn: 0.2158312	total: 1m 4s	remaining: 1m 6s
246:	learn: 0.2157475	total: 1m 4s	remaining: 1m 6s
247:	learn: 0.2157314	total: 1m 5s	remaining: 1m 6s
248:	learn: 0.2157218	total: 1m 5s	remaining: 1m 5s
249:	learn: 0.2155697	total: 1m 5s	remaining: 1m 5s
250:	learn: 0.2154640	total: 1m 5s	remaining: 1m 5s
251:	learn: 0.2154192	total: 1m 6s	remaining: 1m 4s
252:	learn: 0.2153727	total: 1m 6s	remaining: 1m 4s
253:	learn: 0.2152767	total: 1m 6s	remaining: 1m 4s
254:	learn: 0.2152175	total: 1m 6s	remaining: 1m 4s
255:	learn: 0.2151886	total: 1m 6s	remaining: 1m 3s
256:	learn: 0.2151725	total: 1m 7s	remaining: 1m 3s
257:	learn: 0.2151646	total: 1m 7s	remaining: 1m 3s
258:	learn: 0.2151062	total: 1m 7s	remaining: 1m 2s

259:	learn: 0.2150761	total: 1m 7s	remaining: 1m 2s
260:	learn: 0.2150050	total: 1m 8s	remaining: 1m 2s
261:	learn: 0.2149564	total: 1m 8s	remaining: 1m 2s
262:	learn: 0.2149124	total: 1m 8s	remaining: 1m 1s
263:	learn: 0.2148312	total: 1m 8s	remaining: 1m 1s
264:	learn: 0.2147580	total: 1m 9s	remaining: 1m 1s
265:	learn: 0.2147255	total: 1m 9s	remaining: 1m
266:	learn: 0.2146656	total: 1m 9s	remaining: 1m
267:	learn: 0.2146346	total: 1m 9s	remaining: 1m
268:	learn: 0.2145649	total: 1m 9s	remaining: 1m
269:	learn: 0.2145165	total: 1m 10s	remaining: 59.7s
270:	learn: 0.2144637	total: 1m 10s	remaining: 59.4s
271:	learn: 0.2144104	total: 1m 10s	remaining: 59.1s
272:	learn: 0.2143561	total: 1m 10s	remaining: 58.8s
273:	learn: 0.2143265	total: 1m 10s	remaining: 58.5s
274:	learn: 0.2142270	total: 1m 11s	remaining: 58.2s
275:	learn: 0.2142093	total: 1m 11s	remaining: 57.9s
276:	learn: 0.2141493	total: 1m 11s	remaining: 57.6s
277:	learn: 0.2140730	total: 1m 11s	remaining: 57.4s
278:	learn: 0.2140438	total: 1m 12s	remaining: 57.1s
279:	learn: 0.2139482	total: 1m 12s	remaining: 56.9s
280:	learn: 0.2138321	total: 1m 12s	remaining: 56.6s
281:	learn: 0.2137604	total: 1m 12s	remaining: 56.4s
282:	learn: 0.2137073	total: 1m 13s	remaining: 56.1s
283:	learn: 0.2136650	total: 1m 13s	remaining: 55.9s
284:	learn: 0.2135753	total: 1m 13s	remaining: 55.6s
285:	learn: 0.2135095	total: 1m 14s	remaining: 55.4s
286:	learn: 0.2134860	total: 1m 14s	remaining: 55.1s
287:	learn: 0.2134474	total: 1m 14s	remaining: 54.9s
288:	learn: 0.2133333	total: 1m 14s	remaining: 54.7s
289:	learn: 0.2132712	total: 1m 15s	remaining: 54.4s
290:	learn: 0.2132577	total: 1m 15s	remaining: 54.1s
291:	learn: 0.2131935	total: 1m 15s	remaining: 53.9s
292:	learn: 0.2131112	total: 1m 15s	remaining: 53.6s
293:	learn: 0.2130536	total: 1m 16s	remaining: 53.4s
294:	learn: 0.2130217	total: 1m 16s	remaining: 53.2s
295:	learn: 0.2129766	total: 1m 16s	remaining: 52.9s
296:	learn: 0.2129022	total: 1m 17s	remaining: 52.7s
297:	learn: 0.2128264	total: 1m 17s	remaining: 52.4s
298:	learn: 0.2127308	total: 1m 17s	remaining: 52.2s
299:	learn: 0.2126931	total: 1m 17s	remaining: 51.9s
300:	learn: 0.2126585	total: 1m 18s	remaining: 51.7s
301:	learn: 0.2126287	total: 1m 18s	remaining: 51.4s
302:	learn: 0.2125391	total: 1m 18s	remaining: 51.2s
303:	learn: 0.2124787	total: 1m 18s	remaining: 50.9s
304:	learn: 0.2124274	total: 1m 19s	remaining: 50.7s
305:	learn: 0.2123878	total: 1m 19s	remaining: 50.4s
306:	learn: 0.2123497	total: 1m 19s	remaining: 50.2s

307:	learn: 0.2122118	total: 1m 20s	remaining: 49.9s
308:	learn: 0.2121270	total: 1m 20s	remaining: 49.7s
309:	learn: 0.2120189	total: 1m 20s	remaining: 49.4s
310:	learn: 0.2119943	total: 1m 20s	remaining: 49.1s
311:	learn: 0.2118927	total: 1m 21s	remaining: 48.9s
312:	learn: 0.2118698	total: 1m 21s	remaining: 48.6s
313:	learn: 0.2117730	total: 1m 21s	remaining: 48.4s
314:	learn: 0.2117310	total: 1m 21s	remaining: 48.1s
315:	learn: 0.2117267	total: 1m 22s	remaining: 47.8s
316:	learn: 0.2116609	total: 1m 22s	remaining: 47.5s
317:	learn: 0.2116467	total: 1m 22s	remaining: 47.3s
318:	learn: 0.2115770	total: 1m 22s	remaining: 47s
319:	learn: 0.2115084	total: 1m 23s	remaining: 46.8s
320:	learn: 0.2113572	total: 1m 23s	remaining: 46.5s
321:	learn: 0.2113035	total: 1m 23s	remaining: 46.2s
322:	learn: 0.2112366	total: 1m 23s	remaining: 45.9s
323:	learn: 0.2111779	total: 1m 24s	remaining: 45.7s
324:	learn: 0.2111172	total: 1m 24s	remaining: 45.4s
325:	learn: 0.2110561	total: 1m 24s	remaining: 45.1s
326:	learn: 0.2109799	total: 1m 24s	remaining: 44.9s
327:	learn: 0.2109128	total: 1m 25s	remaining: 44.6s
328:	learn: 0.2108548	total: 1m 25s	remaining: 44.3s
329:	learn: 0.2108040	total: 1m 25s	remaining: 44.1s
330:	learn: 0.2107137	total: 1m 25s	remaining: 43.8s
331:	learn: 0.2106205	total: 1m 26s	remaining: 43.5s
332:	learn: 0.2106138	total: 1m 26s	remaining: 43.3s
333:	learn: 0.2105991	total: 1m 26s	remaining: 43s
334:	learn: 0.2104932	total: 1m 26s	remaining: 42.8s
335:	learn: 0.2104422	total: 1m 27s	remaining: 42.5s
336:	learn: 0.2103877	total: 1m 27s	remaining: 42.3s
337:	learn: 0.2103345	total: 1m 27s	remaining: 42s
338:	learn: 0.2102281	total: 1m 27s	remaining: 41.7s
339:	learn: 0.2102009	total: 1m 28s	remaining: 41.5s
340:	learn: 0.2101911	total: 1m 28s	remaining: 41.2s
341:	learn: 0.2101212	total: 1m 28s	remaining: 41s
342:	learn: 0.2100955	total: 1m 28s	remaining: 40.7s
343:	learn: 0.2098809	total: 1m 29s	remaining: 40.5s
344:	learn: 0.2098266	total: 1m 29s	remaining: 40.2s
345:	learn: 0.2098150	total: 1m 29s	remaining: 40s
346:	learn: 0.2097829	total: 1m 30s	remaining: 39.7s
347:	learn: 0.2097345	total: 1m 30s	remaining: 39.4s
348:	learn: 0.2097264	total: 1m 30s	remaining: 39.2s
349:	learn: 0.2097049	total: 1m 30s	remaining: 38.9s
350:	learn: 0.2096300	total: 1m 31s	remaining: 38.7s
351:	learn: 0.2095756	total: 1m 31s	remaining: 38.4s
352:	learn: 0.2094339	total: 1m 31s	remaining: 38.1s
353:	learn: 0.2093822	total: 1m 31s	remaining: 37.9s
354:	learn: 0.2092764	total: 1m 32s	remaining: 37.6s

355:	learn: 0.2091729	total: 1m 32s	remaining: 37.4s
356:	learn: 0.2091452	total: 1m 32s	remaining: 37.1s
357:	learn: 0.2091202	total: 1m 33s	remaining: 36.9s
358:	learn: 0.2090580	total: 1m 33s	remaining: 36.6s
359:	learn: 0.2089604	total: 1m 33s	remaining: 36.4s
360:	learn: 0.2089094	total: 1m 33s	remaining: 36.1s
361:	learn: 0.2088214	total: 1m 34s	remaining: 35.9s
362:	learn: 0.2087532	total: 1m 34s	remaining: 35.6s
363:	learn: 0.2086812	total: 1m 34s	remaining: 35.4s
364:	learn: 0.2085894	total: 1m 34s	remaining: 35.1s
365:	learn: 0.2085594	total: 1m 35s	remaining: 34.8s
366:	learn: 0.2084995	total: 1m 35s	remaining: 34.6s
367:	learn: 0.2084820	total: 1m 35s	remaining: 34.3s
368:	learn: 0.2084422	total: 1m 35s	remaining: 34.1s
369:	learn: 0.2083462	total: 1m 36s	remaining: 33.8s
370:	learn: 0.2083271	total: 1m 36s	remaining: 33.6s
371:	learn: 0.2082459	total: 1m 36s	remaining: 33.3s
372:	learn: 0.2081755	total: 1m 36s	remaining: 33s
373:	learn: 0.2081239	total: 1m 37s	remaining: 32.8s
374:	learn: 0.2080585	total: 1m 37s	remaining: 32.5s
375:	learn: 0.2080130	total: 1m 37s	remaining: 32.2s
376:	learn: 0.2079828	total: 1m 37s	remaining: 32s
377:	learn: 0.2078824	total: 1m 38s	remaining: 31.7s
378:	learn: 0.2078622	total: 1m 38s	remaining: 31.4s
379:	learn: 0.2077481	total: 1m 38s	remaining: 31.2s
380:	learn: 0.2076928	total: 1m 38s	remaining: 30.9s
381:	learn: 0.2076789	total: 1m 39s	remaining: 30.6s
382:	learn: 0.2075916	total: 1m 39s	remaining: 30.4s
383:	learn: 0.2075262	total: 1m 39s	remaining: 30.1s
384:	learn: 0.2074694	total: 1m 40s	remaining: 29.9s
385:	learn: 0.2074462	total: 1m 40s	remaining: 29.6s
386:	learn: 0.2074164	total: 1m 40s	remaining: 29.3s
387:	learn: 0.2073535	total: 1m 40s	remaining: 29.1s
388:	learn: 0.2073150	total: 1m 40s	remaining: 28.8s
389:	learn: 0.2072314	total: 1m 41s	remaining: 28.6s
390:	learn: 0.2071444	total: 1m 41s	remaining: 28.3s
391:	learn: 0.2071212	total: 1m 41s	remaining: 28s
392:	learn: 0.2070878	total: 1m 41s	remaining: 27.8s
393:	learn: 0.2069727	total: 1m 42s	remaining: 27.5s
394:	learn: 0.2069351	total: 1m 42s	remaining: 27.2s
395:	learn: 0.2068189	total: 1m 42s	remaining: 27s
396:	learn: 0.2067337	total: 1m 43s	remaining: 26.7s
397:	learn: 0.2066792	total: 1m 43s	remaining: 26.5s
398:	learn: 0.2066314	total: 1m 43s	remaining: 26.2s
399:	learn: 0.2066060	total: 1m 43s	remaining: 26s
400:	learn: 0.2065897	total: 1m 44s	remaining: 25.7s
401:	learn: 0.2065676	total: 1m 44s	remaining: 25.4s
402:	learn: 0.2065240	total: 1m 44s	remaining: 25.2s

403:	learn: 0.2064803	total: 1m 44s	remaining: 24.9s
404:	learn: 0.2063821	total: 1m 45s	remaining: 24.7s
405:	learn: 0.2062776	total: 1m 45s	remaining: 24.5s
406:	learn: 0.2062553	total: 1m 45s	remaining: 24.2s
407:	learn: 0.2061379	total: 1m 46s	remaining: 23.9s
408:	learn: 0.2061221	total: 1m 46s	remaining: 23.7s
409:	learn: 0.2059974	total: 1m 46s	remaining: 23.4s
410:	learn: 0.2059329	total: 1m 46s	remaining: 23.2s
411:	learn: 0.2058356	total: 1m 47s	remaining: 22.9s
412:	learn: 0.2057687	total: 1m 47s	remaining: 22.6s
413:	learn: 0.2057107	total: 1m 47s	remaining: 22.4s
414:	learn: 0.2055887	total: 1m 48s	remaining: 22.1s
415:	learn: 0.2055722	total: 1m 48s	remaining: 21.9s
416:	learn: 0.2055380	total: 1m 48s	remaining: 21.6s
417:	learn: 0.2054442	total: 1m 48s	remaining: 21.4s
418:	learn: 0.2054007	total: 1m 49s	remaining: 21.1s
419:	learn: 0.2053631	total: 1m 49s	remaining: 20.8s
420:	learn: 0.2053276	total: 1m 49s	remaining: 20.6s
421:	learn: 0.2053054	total: 1m 49s	remaining: 20.3s
422:	learn: 0.2051906	total: 1m 50s	remaining: 20.1s
423:	learn: 0.2051458	total: 1m 50s	remaining: 19.8s
424:	learn: 0.2050182	total: 1m 50s	remaining: 19.5s
425:	learn: 0.2049966	total: 1m 50s	remaining: 19.3s
426:	learn: 0.2049809	total: 1m 51s	remaining: 19s
427:	learn: 0.2049250	total: 1m 51s	remaining: 18.8s
428:	learn: 0.2048628	total: 1m 51s	remaining: 18.5s
429:	learn: 0.2047854	total: 1m 52s	remaining: 18.2s
430:	learn: 0.2047172	total: 1m 52s	remaining: 18s
431:	learn: 0.2046677	total: 1m 52s	remaining: 17.7s
432:	learn: 0.2046576	total: 1m 52s	remaining: 17.5s
433:	learn: 0.2045475	total: 1m 53s	remaining: 17.2s
434:	learn: 0.2044881	total: 1m 53s	remaining: 16.9s
435:	learn: 0.2043819	total: 1m 53s	remaining: 16.7s
436:	learn: 0.2043626	total: 1m 53s	remaining: 16.4s
437:	learn: 0.2043239	total: 1m 54s	remaining: 16.2s
438:	learn: 0.2042533	total: 1m 54s	remaining: 15.9s
439:	learn: 0.2042225	total: 1m 54s	remaining: 15.6s
440:	learn: 0.2041707	total: 1m 54s	remaining: 15.4s
441:	learn: 0.2040846	total: 1m 55s	remaining: 15.1s
442:	learn: 0.2040256	total: 1m 55s	remaining: 14.8s
443:	learn: 0.2039825	total: 1m 55s	remaining: 14.6s
444:	learn: 0.2038777	total: 1m 55s	remaining: 14.3s
445:	learn: 0.2038085	total: 1m 56s	remaining: 14.1s
446:	learn: 0.2037875	total: 1m 56s	remaining: 13.8s
447:	learn: 0.2036504	total: 1m 56s	remaining: 13.6s
448:	learn: 0.2035759	total: 1m 57s	remaining: 13.3s
449:	learn: 0.2035193	total: 1m 57s	remaining: 13s
450:	learn: 0.2034580	total: 1m 57s	remaining: 12.8s

451:	learn: 0.2034109	total: 1m 57s	remaining: 12.5s
452:	learn: 0.2033861	total: 1m 58s	remaining: 12.2s
453:	learn: 0.2033055	total: 1m 58s	remaining: 12s
454:	learn: 0.2032470	total: 1m 58s	remaining: 11.7s
455:	learn: 0.2032307	total: 1m 58s	remaining: 11.5s
456:	learn: 0.2031878	total: 1m 59s	remaining: 11.2s
457:	learn: 0.2031771	total: 1m 59s	remaining: 10.9s
458:	learn: 0.2030477	total: 1m 59s	remaining: 10.7s
459:	learn: 0.2029513	total: 1m 59s	remaining: 10.4s
460:	learn: 0.2028070	total: 2m	remaining: 10.2s
461:	learn: 0.2027957	total: 2m	remaining: 9.91s
462:	learn: 0.2027292	total: 2m	remaining: 9.65s
463:	learn: 0.2027060	total: 2m 1s	remaining: 9.39s
464:	learn: 0.2026642	total: 2m 1s	remaining: 9.13s
465:	learn: 0.2025144	total: 2m 1s	remaining: 8.87s
466:	learn: 0.2024342	total: 2m 1s	remaining: 8.61s
467:	learn: 0.2023589	total: 2m 2s	remaining: 8.35s
468:	learn: 0.2022767	total: 2m 2s	remaining: 8.09s
469:	learn: 0.2022647	total: 2m 2s	remaining: 7.83s
470:	learn: 0.2022117	total: 2m 2s	remaining: 7.57s
471:	learn: 0.2021550	total: 2m 3s	remaining: 7.31s
472:	learn: 0.2021115	total: 2m 3s	remaining: 7.05s
473:	learn: 0.2020835	total: 2m 3s	remaining: 6.79s
474:	learn: 0.2020053	total: 2m 3s	remaining: 6.53s
475:	learn: 0.2019296	total: 2m 4s	remaining: 6.27s
476:	learn: 0.2019173	total: 2m 4s	remaining: 6.01s
477:	learn: 0.2018732	total: 2m 4s	remaining: 5.75s
478:	learn: 0.2018399	total: 2m 5s	remaining: 5.48s
479:	learn: 0.2017113	total: 2m 5s	remaining: 5.22s
480:	learn: 0.2016713	total: 2m 5s	remaining: 4.96s
481:	learn: 0.2016237	total: 2m 5s	remaining: 4.7s
482:	learn: 0.2015947	total: 2m 6s	remaining: 4.44s
483:	learn: 0.2015636	total: 2m 6s	remaining: 4.18s
484:	learn: 0.2015228	total: 2m 6s	remaining: 3.92s
485:	learn: 0.2014477	total: 2m 7s	remaining: 3.66s
486:	learn: 0.2013893	total: 2m 7s	remaining: 3.4s
487:	learn: 0.2013454	total: 2m 7s	remaining: 3.14s
488:	learn: 0.2012943	total: 2m 7s	remaining: 2.88s
489:	learn: 0.2012790	total: 2m 8s	remaining: 2.61s
490:	learn: 0.2012339	total: 2m 8s	remaining: 2.35s
491:	learn: 0.2011563	total: 2m 8s	remaining: 2.09s
492:	learn: 0.2010909	total: 2m 8s	remaining: 1.83s
493:	learn: 0.2010096	total: 2m 9s	remaining: 1.57s
494:	learn: 0.2009457	total: 2m 9s	remaining: 1.31s
495:	learn: 0.2008909	total: 2m 9s	remaining: 1.05s
496:	learn: 0.2008410	total: 2m 10s	remaining: 785ms
497:	learn: 0.2007494	total: 2m 10s	remaining: 523ms
498:	learn: 0.2007006	total: 2m 10s	remaining: 262ms

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499:   learn: 0.2006518      total: 2m 10s   remaining: 0us
Learning rate set to 0.174288
0:     learn: 0.9736013      total: 254ms    remaining: 2m 6s
1:     learn: 0.8898855      total: 512ms    remaining: 2m 7s
2:     learn: 0.8306507      total: 689ms    remaining: 1m 54s
3:     learn: 0.7859236      total: 884ms    remaining: 1m 49s
4:     learn: 0.6938425      total: 1.08s    remaining: 1m 46s
5:     learn: 0.6598397      total: 1.27s    remaining: 1m 44s
6:     learn: 0.5839318      total: 1.47s    remaining: 1m 43s
7:     learn: 0.5297910      total: 1.67s    remaining: 1m 42s
8:     learn: 0.5041683      total: 1.86s    remaining: 1m 41s
9:     learn: 0.4643600      total: 2.06s    remaining: 1m 40s
10:    learn: 0.4336282      total: 2.25s    remaining: 1m 39s
11:    learn: 0.4080826      total: 2.48s    remaining: 1m 40s
12:    learn: 0.3927323      total: 2.72s    remaining: 1m 41s
13:    learn: 0.3881637      total: 2.93s    remaining: 1m 41s
14:    learn: 0.3717417      total: 3.19s    remaining: 1m 43s
15:    learn: 0.3577669      total: 3.52s    remaining: 1m 46s
16:    learn: 0.3460787      total: 3.83s    remaining: 1m 48s
17:    learn: 0.3298488      total: 4.13s    remaining: 1m 50s
18:    learn: 0.3174609      total: 4.44s    remaining: 1m 52s
19:    learn: 0.3074011      total: 4.71s    remaining: 1m 53s
20:    learn: 0.3058793      total: 4.99s    remaining: 1m 53s
21:    learn: 0.2976452      total: 5.28s    remaining: 1m 54s
22:    learn: 0.2912849      total: 5.58s    remaining: 1m 55s
23:    learn: 0.2856090      total: 5.88s    remaining: 1m 56s
24:    learn: 0.2829590      total: 6.16s    remaining: 1m 56s
25:    learn: 0.2780824      total: 6.43s    remaining: 1m 57s
26:    learn: 0.2771104      total: 6.72s    remaining: 1m 57s
27:    learn: 0.2750935      total: 6.99s    remaining: 1m 57s
28:    learn: 0.2730383      total: 7.28s    remaining: 1m 58s
29:    learn: 0.2720495      total: 7.55s    remaining: 1m 58s
30:    learn: 0.2691219      total: 7.86s    remaining: 1m 58s
31:    learn: 0.2679747      total: 8.13s    remaining: 1m 58s
32:    learn: 0.2653210      total: 8.44s    remaining: 1m 59s
33:    learn: 0.2646240      total: 8.73s    remaining: 1m 59s
34:    learn: 0.2634929      total: 9.01s    remaining: 1m 59s
35:    learn: 0.2626403      total: 9.32s    remaining: 2m
36:    learn: 0.2622553      total: 9.6s     remaining: 2m
37:    learn: 0.2600348      total: 9.92s    remaining: 2m
38:    learn: 0.2594646      total: 10.2s    remaining: 2m
39:    learn: 0.2592362      total: 10.5s    remaining: 2m
40:    learn: 0.2587705      total: 10.7s    remaining: 2m
41:    learn: 0.2584702      total: 11s      remaining: 1m 59s
42:    learn: 0.2582053      total: 11.3s    remaining: 1m 59s
43:    learn: 0.2577681      total: 11.5s    remaining: 1m 59s
44:    learn: 0.2566806      total: 11.8s    remaining: 1m 59s
45:    learn: 0.2561666      total: 12.1s    remaining: 1m 59s

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46:	learn: 0.2559652	total: 12.4s	remaining: 1m 59s
47:	learn: 0.2554719	total: 12.7s	remaining: 1m 59s
48:	learn: 0.2550032	total: 12.9s	remaining: 1m 59s
49:	learn: 0.2544959	total: 13.2s	remaining: 1m 58s
50:	learn: 0.2540824	total: 13.4s	remaining: 1m 58s
51:	learn: 0.2538804	total: 13.7s	remaining: 1m 58s
52:	learn: 0.2537174	total: 13.9s	remaining: 1m 57s
53:	learn: 0.2533221	total: 14.1s	remaining: 1m 56s
54:	learn: 0.2531241	total: 14.4s	remaining: 1m 56s
55:	learn: 0.2528306	total: 14.6s	remaining: 1m 56s
56:	learn: 0.2526056	total: 14.9s	remaining: 1m 55s
57:	learn: 0.2496390	total: 15.2s	remaining: 1m 55s
58:	learn: 0.2469294	total: 15.4s	remaining: 1m 55s
59:	learn: 0.2467459	total: 15.6s	remaining: 1m 54s
60:	learn: 0.2464018	total: 15.9s	remaining: 1m 54s
61:	learn: 0.2461778	total: 16.1s	remaining: 1m 53s
62:	learn: 0.2459582	total: 16.4s	remaining: 1m 53s
63:	learn: 0.2457046	total: 16.6s	remaining: 1m 53s
64:	learn: 0.2456459	total: 16.9s	remaining: 1m 52s
65:	learn: 0.2453690	total: 17.1s	remaining: 1m 52s
66:	learn: 0.2452125	total: 17.4s	remaining: 1m 52s
67:	learn: 0.2443937	total: 17.6s	remaining: 1m 52s
68:	learn: 0.2441810	total: 17.9s	remaining: 1m 51s
69:	learn: 0.2437890	total: 18.1s	remaining: 1m 51s
70:	learn: 0.2435969	total: 18.4s	remaining: 1m 51s
71:	learn: 0.2433814	total: 18.7s	remaining: 1m 51s
72:	learn: 0.2429525	total: 19s	remaining: 1m 50s
73:	learn: 0.2428469	total: 19.2s	remaining: 1m 50s
74:	learn: 0.2426695	total: 19.5s	remaining: 1m 50s
75:	learn: 0.2423823	total: 19.8s	remaining: 1m 50s
76:	learn: 0.2419928	total: 20.1s	remaining: 1m 50s
77:	learn: 0.2418336	total: 20.4s	remaining: 1m 50s
78:	learn: 0.2416985	total: 20.7s	remaining: 1m 50s
79:	learn: 0.2414475	total: 21s	remaining: 1m 50s
80:	learn: 0.2413867	total: 21.3s	remaining: 1m 50s
81:	learn: 0.2412070	total: 21.6s	remaining: 1m 49s
82:	learn: 0.2409470	total: 21.8s	remaining: 1m 49s
83:	learn: 0.2408269	total: 22.1s	remaining: 1m 49s
84:	learn: 0.2392221	total: 22.4s	remaining: 1m 49s
85:	learn: 0.2390918	total: 22.7s	remaining: 1m 49s
86:	learn: 0.2389975	total: 23s	remaining: 1m 49s
87:	learn: 0.2388648	total: 23.2s	remaining: 1m 48s
88:	learn: 0.2383795	total: 23.5s	remaining: 1m 48s
89:	learn: 0.2382663	total: 23.8s	remaining: 1m 48s
90:	learn: 0.2377784	total: 24.1s	remaining: 1m 48s
91:	learn: 0.2376850	total: 24.4s	remaining: 1m 48s
92:	learn: 0.2376333	total: 24.6s	remaining: 1m 47s
93:	learn: 0.2358014	total: 24.9s	remaining: 1m 47s

94:	learn: 0.2356495	total: 25.2s	remaining: 1m 47s
95:	learn: 0.2355332	total: 25.5s	remaining: 1m 47s
96:	learn: 0.2354531	total: 25.8s	remaining: 1m 47s
97:	learn: 0.2352580	total: 26.1s	remaining: 1m 46s
98:	learn: 0.2351812	total: 26.4s	remaining: 1m 46s
99:	learn: 0.2350253	total: 26.6s	remaining: 1m 46s
100:	learn: 0.2346614	total: 26.9s	remaining: 1m 46s
101:	learn: 0.2345703	total: 27.2s	remaining: 1m 46s
102:	learn: 0.2345583	total: 27.4s	remaining: 1m 45s
103:	learn: 0.2344694	total: 27.7s	remaining: 1m 45s
104:	learn: 0.2343276	total: 28s	remaining: 1m 45s
105:	learn: 0.2341991	total: 28.3s	remaining: 1m 45s
106:	learn: 0.2340047	total: 28.6s	remaining: 1m 44s
107:	learn: 0.2338724	total: 28.9s	remaining: 1m 44s
108:	learn: 0.2338453	total: 29.1s	remaining: 1m 44s
109:	learn: 0.2336712	total: 29.4s	remaining: 1m 44s
110:	learn: 0.2335795	total: 29.7s	remaining: 1m 43s
111:	learn: 0.2335609	total: 29.9s	remaining: 1m 43s
112:	learn: 0.2334668	total: 30.1s	remaining: 1m 43s
113:	learn: 0.2333984	total: 30.4s	remaining: 1m 42s
114:	learn: 0.2333074	total: 30.7s	remaining: 1m 42s
115:	learn: 0.2331477	total: 30.9s	remaining: 1m 42s
116:	learn: 0.2330912	total: 31.2s	remaining: 1m 41s
117:	learn: 0.2330124	total: 31.4s	remaining: 1m 41s
118:	learn: 0.2329589	total: 31.7s	remaining: 1m 41s
119:	learn: 0.2328518	total: 31.9s	remaining: 1m 41s
120:	learn: 0.2327000	total: 32.2s	remaining: 1m 40s
121:	learn: 0.2326670	total: 32.5s	remaining: 1m 40s
122:	learn: 0.2325255	total: 32.8s	remaining: 1m 40s
123:	learn: 0.2322054	total: 33s	remaining: 1m 40s
124:	learn: 0.2321378	total: 33.3s	remaining: 1m 39s
125:	learn: 0.2320313	total: 33.5s	remaining: 1m 39s
126:	learn: 0.2319269	total: 33.8s	remaining: 1m 39s
127:	learn: 0.2318477	total: 34.1s	remaining: 1m 39s
128:	learn: 0.2316276	total: 34.4s	remaining: 1m 38s
129:	learn: 0.2315508	total: 34.7s	remaining: 1m 38s
130:	learn: 0.2315293	total: 34.9s	remaining: 1m 38s
131:	learn: 0.2313626	total: 35.2s	remaining: 1m 38s
132:	learn: 0.2312073	total: 35.4s	remaining: 1m 37s
133:	learn: 0.2311492	total: 35.7s	remaining: 1m 37s
134:	learn: 0.2310256	total: 35.9s	remaining: 1m 37s
135:	learn: 0.2307817	total: 36.2s	remaining: 1m 36s
136:	learn: 0.2307345	total: 36.5s	remaining: 1m 36s
137:	learn: 0.2306892	total: 36.8s	remaining: 1m 36s
138:	learn: 0.2306407	total: 37.1s	remaining: 1m 36s
139:	learn: 0.2306269	total: 37.3s	remaining: 1m 35s
140:	learn: 0.2305127	total: 37.6s	remaining: 1m 35s
141:	learn: 0.2304496	total: 37.9s	remaining: 1m 35s

142:	learn: 0.2302401	total: 38.2s	remaining: 1m 35s
143:	learn: 0.2301303	total: 38.4s	remaining: 1m 34s
144:	learn: 0.2300658	total: 38.7s	remaining: 1m 34s
145:	learn: 0.2299966	total: 39s	remaining: 1m 34s
146:	learn: 0.2299637	total: 39.3s	remaining: 1m 34s
147:	learn: 0.2299293	total: 39.5s	remaining: 1m 34s
148:	learn: 0.2298368	total: 39.8s	remaining: 1m 33s
149:	learn: 0.2297890	total: 40.1s	remaining: 1m 33s
150:	learn: 0.2297201	total: 40.4s	remaining: 1m 33s
151:	learn: 0.2295353	total: 40.7s	remaining: 1m 33s
152:	learn: 0.2293654	total: 41s	remaining: 1m 32s
153:	learn: 0.2292736	total: 41.3s	remaining: 1m 32s
154:	learn: 0.2292206	total: 41.5s	remaining: 1m 32s
155:	learn: 0.2290175	total: 41.8s	remaining: 1m 32s
156:	learn: 0.2288325	total: 42.2s	remaining: 1m 32s
157:	learn: 0.2287772	total: 42.4s	remaining: 1m 31s
158:	learn: 0.2287089	total: 42.7s	remaining: 1m 31s
159:	learn: 0.2286716	total: 43s	remaining: 1m 31s
160:	learn: 0.2285992	total: 43.3s	remaining: 1m 31s
161:	learn: 0.2284931	total: 43.6s	remaining: 1m 30s
162:	learn: 0.2284033	total: 43.8s	remaining: 1m 30s
163:	learn: 0.2283446	total: 44.1s	remaining: 1m 30s
164:	learn: 0.2282853	total: 44.4s	remaining: 1m 30s
165:	learn: 0.2281891	total: 44.7s	remaining: 1m 29s
166:	learn: 0.2281465	total: 44.9s	remaining: 1m 29s
167:	learn: 0.2281049	total: 45.2s	remaining: 1m 29s
168:	learn: 0.2280230	total: 45.5s	remaining: 1m 29s
169:	learn: 0.2279149	total: 45.8s	remaining: 1m 28s
170:	learn: 0.2278506	total: 46s	remaining: 1m 28s
171:	learn: 0.2275899	total: 46.3s	remaining: 1m 28s
172:	learn: 0.2267052	total: 46.6s	remaining: 1m 27s
173:	learn: 0.2266096	total: 46.8s	remaining: 1m 27s
174:	learn: 0.2265159	total: 47s	remaining: 1m 27s
175:	learn: 0.2264222	total: 47.3s	remaining: 1m 27s
176:	learn: 0.2264089	total: 47.6s	remaining: 1m 26s
177:	learn: 0.2261862	total: 47.9s	remaining: 1m 26s
178:	learn: 0.2260158	total: 48.1s	remaining: 1m 26s
179:	learn: 0.2259632	total: 48.4s	remaining: 1m 26s
180:	learn: 0.2259233	total: 48.6s	remaining: 1m 25s
181:	learn: 0.2258800	total: 48.9s	remaining: 1m 25s
182:	learn: 0.2258535	total: 49.1s	remaining: 1m 25s
183:	learn: 0.2258207	total: 49.4s	remaining: 1m 24s
184:	learn: 0.2257310	total: 49.7s	remaining: 1m 24s
185:	learn: 0.2255718	total: 50s	remaining: 1m 24s
186:	learn: 0.2255271	total: 50.2s	remaining: 1m 24s
187:	learn: 0.2255104	total: 50.5s	remaining: 1m 23s
188:	learn: 0.2254466	total: 50.8s	remaining: 1m 23s
189:	learn: 0.2254267	total: 51s	remaining: 1m 23s

190:	learn: 0.2253645	total: 51.3s	remaining: 1m 22s
191:	learn: 0.2253093	total: 51.6s	remaining: 1m 22s
192:	learn: 0.2252318	total: 51.8s	remaining: 1m 22s
193:	learn: 0.2251557	total: 52.1s	remaining: 1m 22s
194:	learn: 0.2251231	total: 52.4s	remaining: 1m 21s
195:	learn: 0.2250870	total: 52.6s	remaining: 1m 21s
196:	learn: 0.2250455	total: 52.9s	remaining: 1m 21s
197:	learn: 0.2249227	total: 53.2s	remaining: 1m 21s
198:	learn: 0.2248727	total: 53.4s	remaining: 1m 20s
199:	learn: 0.2247776	total: 53.7s	remaining: 1m 20s
200:	learn: 0.2247160	total: 54s	remaining: 1m 20s
201:	learn: 0.2245404	total: 54.3s	remaining: 1m 20s
202:	learn: 0.2244808	total: 54.6s	remaining: 1m 19s
203:	learn: 0.2244354	total: 54.8s	remaining: 1m 19s
204:	learn: 0.2243990	total: 55.1s	remaining: 1m 19s
205:	learn: 0.2243569	total: 55.4s	remaining: 1m 19s
206:	learn: 0.2241615	total: 55.7s	remaining: 1m 18s
207:	learn: 0.2241152	total: 55.9s	remaining: 1m 18s
208:	learn: 0.2240874	total: 56.2s	remaining: 1m 18s
209:	learn: 0.2239409	total: 56.5s	remaining: 1m 17s
210:	learn: 0.2239007	total: 56.7s	remaining: 1m 17s
211:	learn: 0.2238606	total: 57s	remaining: 1m 17s
212:	learn: 0.2237665	total: 57.3s	remaining: 1m 17s
213:	learn: 0.2237375	total: 57.6s	remaining: 1m 16s
214:	learn: 0.2236136	total: 57.9s	remaining: 1m 16s
215:	learn: 0.2235352	total: 58.3s	remaining: 1m 16s
216:	learn: 0.2234332	total: 58.5s	remaining: 1m 16s
217:	learn: 0.2232962	total: 58.8s	remaining: 1m 16s
218:	learn: 0.2231864	total: 59.1s	remaining: 1m 15s
219:	learn: 0.2230814	total: 59.4s	remaining: 1m 15s
220:	learn: 0.2229562	total: 59.7s	remaining: 1m 15s
221:	learn: 0.2229095	total: 60s	remaining: 1m 15s
222:	learn: 0.2228894	total: 1m	remaining: 1m 14s
223:	learn: 0.2228231	total: 1m	remaining: 1m 14s
224:	learn: 0.2227606	total: 1m	remaining: 1m 14s
225:	learn: 0.2227478	total: 1m 1s	remaining: 1m 14s
226:	learn: 0.2226842	total: 1m 1s	remaining: 1m 13s
227:	learn: 0.2223436	total: 1m 1s	remaining: 1m 13s
228:	learn: 0.2221931	total: 1m 1s	remaining: 1m 13s
229:	learn: 0.2221577	total: 1m 2s	remaining: 1m 12s
230:	learn: 0.2220642	total: 1m 2s	remaining: 1m 12s
231:	learn: 0.2220082	total: 1m 2s	remaining: 1m 12s
232:	learn: 0.2219698	total: 1m 2s	remaining: 1m 12s
233:	learn: 0.2218748	total: 1m 3s	remaining: 1m 11s
234:	learn: 0.2217687	total: 1m 3s	remaining: 1m 11s
235:	learn: 0.2216804	total: 1m 3s	remaining: 1m 11s
236:	learn: 0.2215047	total: 1m 3s	remaining: 1m 10s
237:	learn: 0.2213910	total: 1m 4s	remaining: 1m 10s

238:	learn: 0.2213190	total: 1m 4s	remaining: 1m 10s
239:	learn: 0.2210652	total: 1m 4s	remaining: 1m 10s
240:	learn: 0.2209955	total: 1m 4s	remaining: 1m 9s
241:	learn: 0.2208770	total: 1m 5s	remaining: 1m 9s
242:	learn: 0.2208400	total: 1m 5s	remaining: 1m 9s
243:	learn: 0.2207849	total: 1m 5s	remaining: 1m 8s
244:	learn: 0.2206757	total: 1m 5s	remaining: 1m 8s
245:	learn: 0.2205357	total: 1m 6s	remaining: 1m 8s
246:	learn: 0.2204443	total: 1m 6s	remaining: 1m 8s
247:	learn: 0.2204062	total: 1m 6s	remaining: 1m 7s
248:	learn: 0.2203807	total: 1m 7s	remaining: 1m 7s
249:	learn: 0.2203373	total: 1m 7s	remaining: 1m 7s
250:	learn: 0.2203001	total: 1m 7s	remaining: 1m 7s
251:	learn: 0.2202574	total: 1m 7s	remaining: 1m 6s
252:	learn: 0.2201690	total: 1m 8s	remaining: 1m 6s
253:	learn: 0.2200632	total: 1m 8s	remaining: 1m 6s
254:	learn: 0.2200496	total: 1m 8s	remaining: 1m 6s
255:	learn: 0.2198851	total: 1m 8s	remaining: 1m 5s
256:	learn: 0.2198384	total: 1m 9s	remaining: 1m 5s
257:	learn: 0.2197816	total: 1m 9s	remaining: 1m 5s
258:	learn: 0.2197571	total: 1m 9s	remaining: 1m 4s
259:	learn: 0.2196994	total: 1m 10s	remaining: 1m 4s
260:	learn: 0.2196264	total: 1m 10s	remaining: 1m 4s
261:	learn: 0.2195921	total: 1m 10s	remaining: 1m 4s
262:	learn: 0.2195465	total: 1m 10s	remaining: 1m 3s
263:	learn: 0.2194650	total: 1m 11s	remaining: 1m 3s
264:	learn: 0.2193925	total: 1m 11s	remaining: 1m 3s
265:	learn: 0.2193248	total: 1m 11s	remaining: 1m 3s
266:	learn: 0.2192824	total: 1m 11s	remaining: 1m 2s
267:	learn: 0.2192559	total: 1m 12s	remaining: 1m 2s
268:	learn: 0.2192156	total: 1m 12s	remaining: 1m 2s
269:	learn: 0.2191599	total: 1m 12s	remaining: 1m 1s
270:	learn: 0.2191167	total: 1m 13s	remaining: 1m 1s
271:	learn: 0.2189994	total: 1m 13s	remaining: 1m 1s
272:	learn: 0.2189451	total: 1m 13s	remaining: 1m 1s
273:	learn: 0.2188376	total: 1m 13s	remaining: 1m
274:	learn: 0.2187804	total: 1m 14s	remaining: 1m
275:	learn: 0.2186679	total: 1m 14s	remaining: 1m
276:	learn: 0.2185211	total: 1m 14s	remaining: 1m
277:	learn: 0.2184725	total: 1m 14s	remaining: 59.9s
278:	learn: 0.2184379	total: 1m 15s	remaining: 59.6s
279:	learn: 0.2183892	total: 1m 15s	remaining: 59.3s
280:	learn: 0.2182941	total: 1m 15s	remaining: 59.1s
281:	learn: 0.2182284	total: 1m 16s	remaining: 58.8s
282:	learn: 0.2181812	total: 1m 16s	remaining: 58.5s
283:	learn: 0.2180786	total: 1m 16s	remaining: 58.3s
284:	learn: 0.2179973	total: 1m 16s	remaining: 58s
285:	learn: 0.2179661	total: 1m 17s	remaining: 57.7s

286:	learn: 0.2179513	total: 1m 17s	remaining: 57.4s
287:	learn: 0.2178439	total: 1m 17s	remaining: 57.2s
288:	learn: 0.2178072	total: 1m 17s	remaining: 56.9s
289:	learn: 0.2176904	total: 1m 18s	remaining: 56.6s
290:	learn: 0.2176081	total: 1m 18s	remaining: 56.4s
291:	learn: 0.2174937	total: 1m 18s	remaining: 56.1s
292:	learn: 0.2174288	total: 1m 18s	remaining: 55.8s
293:	learn: 0.2173845	total: 1m 19s	remaining: 55.5s
294:	learn: 0.2173275	total: 1m 19s	remaining: 55.2s
295:	learn: 0.2171142	total: 1m 19s	remaining: 55s
296:	learn: 0.2170615	total: 1m 19s	remaining: 54.7s
297:	learn: 0.2170357	total: 1m 20s	remaining: 54.4s
298:	learn: 0.2169962	total: 1m 20s	remaining: 54.1s
299:	learn: 0.2169074	total: 1m 20s	remaining: 53.8s
300:	learn: 0.2168795	total: 1m 20s	remaining: 53.5s
301:	learn: 0.2167003	total: 1m 21s	remaining: 53.3s
302:	learn: 0.2166546	total: 1m 21s	remaining: 52.9s
303:	learn: 0.2165826	total: 1m 21s	remaining: 52.6s
304:	learn: 0.2165348	total: 1m 21s	remaining: 52.4s
305:	learn: 0.2165137	total: 1m 22s	remaining: 52.1s
306:	learn: 0.2164311	total: 1m 22s	remaining: 51.8s
307:	learn: 0.2163468	total: 1m 22s	remaining: 51.6s
308:	learn: 0.2162963	total: 1m 22s	remaining: 51.3s
309:	learn: 0.2162319	total: 1m 23s	remaining: 51s
310:	learn: 0.2162151	total: 1m 23s	remaining: 50.7s
311:	learn: 0.2161497	total: 1m 23s	remaining: 50.5s
312:	learn: 0.2161299	total: 1m 24s	remaining: 50.2s
313:	learn: 0.2160747	total: 1m 24s	remaining: 49.9s
314:	learn: 0.2159997	total: 1m 24s	remaining: 49.7s
315:	learn: 0.2159726	total: 1m 24s	remaining: 49.4s
316:	learn: 0.2158982	total: 1m 25s	remaining: 49.2s
317:	learn: 0.2157650	total: 1m 25s	remaining: 48.9s
318:	learn: 0.2156192	total: 1m 25s	remaining: 48.6s
319:	learn: 0.2153821	total: 1m 26s	remaining: 48.4s
320:	learn: 0.2153465	total: 1m 26s	remaining: 48.1s
321:	learn: 0.2153005	total: 1m 26s	remaining: 47.9s
322:	learn: 0.2152490	total: 1m 26s	remaining: 47.6s
323:	learn: 0.2151472	total: 1m 27s	remaining: 47.3s
324:	learn: 0.2150694	total: 1m 27s	remaining: 47.1s
325:	learn: 0.2150190	total: 1m 27s	remaining: 46.8s
326:	learn: 0.2149069	total: 1m 27s	remaining: 46.5s
327:	learn: 0.2148446	total: 1m 28s	remaining: 46.3s
328:	learn: 0.2146925	total: 1m 28s	remaining: 46s
329:	learn: 0.2145989	total: 1m 28s	remaining: 45.8s
330:	learn: 0.2145617	total: 1m 29s	remaining: 45.5s
331:	learn: 0.2144935	total: 1m 29s	remaining: 45.2s
332:	learn: 0.2144348	total: 1m 29s	remaining: 44.9s
333:	learn: 0.2143474	total: 1m 29s	remaining: 44.7s

334:	learn: 0.2143396	total: 1m 30s	remaining: 44.4s
335:	learn: 0.2134359	total: 1m 30s	remaining: 44.2s
336:	learn: 0.2134304	total: 1m 30s	remaining: 43.9s
337:	learn: 0.2131907	total: 1m 31s	remaining: 43.6s
338:	learn: 0.2131205	total: 1m 31s	remaining: 43.4s
339:	learn: 0.2130909	total: 1m 31s	remaining: 43.1s
340:	learn: 0.2130261	total: 1m 31s	remaining: 42.8s
341:	learn: 0.2129756	total: 1m 32s	remaining: 42.6s
342:	learn: 0.2129086	total: 1m 32s	remaining: 42.3s
343:	learn: 0.2128812	total: 1m 32s	remaining: 42s
344:	learn: 0.2127788	total: 1m 32s	remaining: 41.8s
345:	learn: 0.2127022	total: 1m 33s	remaining: 41.5s
346:	learn: 0.2126788	total: 1m 33s	remaining: 41.2s
347:	learn: 0.2126633	total: 1m 33s	remaining: 41s
348:	learn: 0.2125196	total: 1m 34s	remaining: 40.7s
349:	learn: 0.2123688	total: 1m 34s	remaining: 40.4s
350:	learn: 0.2122878	total: 1m 34s	remaining: 40.2s
351:	learn: 0.2122313	total: 1m 34s	remaining: 39.9s
352:	learn: 0.2121390	total: 1m 35s	remaining: 39.6s
353:	learn: 0.2121081	total: 1m 35s	remaining: 39.3s
354:	learn: 0.2120681	total: 1m 35s	remaining: 39.1s
355:	learn: 0.2120077	total: 1m 35s	remaining: 38.8s
356:	learn: 0.2119772	total: 1m 36s	remaining: 38.5s
357:	learn: 0.2118436	total: 1m 36s	remaining: 38.2s
358:	learn: 0.2118043	total: 1m 36s	remaining: 37.9s
359:	learn: 0.2117836	total: 1m 36s	remaining: 37.7s
360:	learn: 0.2117077	total: 1m 37s	remaining: 37.4s
361:	learn: 0.2116566	total: 1m 37s	remaining: 37.1s
362:	learn: 0.2113437	total: 1m 37s	remaining: 36.8s
363:	learn: 0.2112726	total: 1m 37s	remaining: 36.5s
364:	learn: 0.2111177	total: 1m 37s	remaining: 36.2s
365:	learn: 0.2110707	total: 1m 37s	remaining: 35.9s
366:	learn: 0.2110366	total: 1m 38s	remaining: 35.6s
367:	learn: 0.2109154	total: 1m 38s	remaining: 35.3s
368:	learn: 0.2108507	total: 1m 38s	remaining: 35s
369:	learn: 0.2106824	total: 1m 38s	remaining: 34.7s
370:	learn: 0.2106781	total: 1m 38s	remaining: 34.4s
371:	learn: 0.2106357	total: 1m 39s	remaining: 34.1s
372:	learn: 0.2105818	total: 1m 39s	remaining: 33.8s
373:	learn: 0.2105553	total: 1m 39s	remaining: 33.6s
374:	learn: 0.2104973	total: 1m 39s	remaining: 33.3s
375:	learn: 0.2104368	total: 1m 40s	remaining: 33s
376:	learn: 0.2103824	total: 1m 40s	remaining: 32.8s
377:	learn: 0.2103349	total: 1m 40s	remaining: 32.5s
378:	learn: 0.2102696	total: 1m 41s	remaining: 32.2s
379:	learn: 0.2102400	total: 1m 41s	remaining: 32s
380:	learn: 0.2101866	total: 1m 41s	remaining: 31.7s
381:	learn: 0.2100834	total: 1m 41s	remaining: 31.5s

382:	learn: 0.2100247	total: 1m 42s	remaining: 31.2s
383:	learn: 0.2099548	total: 1m 42s	remaining: 30.9s
384:	learn: 0.2098537	total: 1m 42s	remaining: 30.7s
385:	learn: 0.2097833	total: 1m 42s	remaining: 30.4s
386:	learn: 0.2097521	total: 1m 43s	remaining: 30.2s
387:	learn: 0.2096328	total: 1m 43s	remaining: 29.9s
388:	learn: 0.2095770	total: 1m 43s	remaining: 29.6s
389:	learn: 0.2094796	total: 1m 44s	remaining: 29.4s
390:	learn: 0.2094341	total: 1m 44s	remaining: 29.1s
391:	learn: 0.2094054	total: 1m 44s	remaining: 28.8s
392:	learn: 0.2093292	total: 1m 44s	remaining: 28.6s
393:	learn: 0.2092134	total: 1m 45s	remaining: 28.3s
394:	learn: 0.2091512	total: 1m 45s	remaining: 28s
395:	learn: 0.2091266	total: 1m 45s	remaining: 27.8s
396:	learn: 0.2090970	total: 1m 45s	remaining: 27.5s
397:	learn: 0.2090608	total: 1m 46s	remaining: 27.2s
398:	learn: 0.2089751	total: 1m 46s	remaining: 27s
399:	learn: 0.2089387	total: 1m 46s	remaining: 26.7s
400:	learn: 0.2088298	total: 1m 47s	remaining: 26.4s
401:	learn: 0.2087821	total: 1m 47s	remaining: 26.2s
402:	learn: 0.2087626	total: 1m 47s	remaining: 25.9s
403:	learn: 0.2086606	total: 1m 47s	remaining: 25.6s
404:	learn: 0.2086001	total: 1m 48s	remaining: 25.4s
405:	learn: 0.2085666	total: 1m 48s	remaining: 25.1s
406:	learn: 0.2084042	total: 1m 48s	remaining: 24.9s
407:	learn: 0.2083011	total: 1m 49s	remaining: 24.6s
408:	learn: 0.2082677	total: 1m 49s	remaining: 24.3s
409:	learn: 0.2081883	total: 1m 49s	remaining: 24.1s
410:	learn: 0.2081314	total: 1m 49s	remaining: 23.8s
411:	learn: 0.2080095	total: 1m 50s	remaining: 23.5s
412:	learn: 0.2079997	total: 1m 50s	remaining: 23.2s
413:	learn: 0.2078878	total: 1m 50s	remaining: 23s
414:	learn: 0.2077966	total: 1m 50s	remaining: 22.7s
415:	learn: 0.2077482	total: 1m 51s	remaining: 22.4s
416:	learn: 0.2076668	total: 1m 51s	remaining: 22.2s
417:	learn: 0.2076231	total: 1m 51s	remaining: 21.9s
418:	learn: 0.2076005	total: 1m 51s	remaining: 21.6s
419:	learn: 0.2075065	total: 1m 52s	remaining: 21.4s
420:	learn: 0.2074126	total: 1m 52s	remaining: 21.1s
421:	learn: 0.2073578	total: 1m 52s	remaining: 20.8s
422:	learn: 0.2073129	total: 1m 52s	remaining: 20.6s
423:	learn: 0.2072845	total: 1m 53s	remaining: 20.3s
424:	learn: 0.2072538	total: 1m 53s	remaining: 20s
425:	learn: 0.2071791	total: 1m 53s	remaining: 19.8s
426:	learn: 0.2071527	total: 1m 54s	remaining: 19.5s
427:	learn: 0.2070987	total: 1m 54s	remaining: 19.2s
428:	learn: 0.2070750	total: 1m 54s	remaining: 19s
429:	learn: 0.2070202	total: 1m 54s	remaining: 18.7s

430:	learn: 0.2069838	total: 1m 55s	remaining: 18.4s
431:	learn: 0.2069063	total: 1m 55s	remaining: 18.2s
432:	learn: 0.2068765	total: 1m 55s	remaining: 17.9s
433:	learn: 0.2068375	total: 1m 55s	remaining: 17.6s
434:	learn: 0.2067959	total: 1m 56s	remaining: 17.4s
435:	learn: 0.2067493	total: 1m 56s	remaining: 17.1s
436:	learn: 0.2066992	total: 1m 56s	remaining: 16.8s
437:	learn: 0.2066542	total: 1m 57s	remaining: 16.6s
438:	learn: 0.2065865	total: 1m 57s	remaining: 16.3s
439:	learn: 0.2065544	total: 1m 57s	remaining: 16s
440:	learn: 0.2064534	total: 1m 57s	remaining: 15.8s
441:	learn: 0.2064200	total: 1m 58s	remaining: 15.5s
442:	learn: 0.2063799	total: 1m 58s	remaining: 15.2s
443:	learn: 0.2062926	total: 1m 58s	remaining: 15s
444:	learn: 0.2062682	total: 1m 59s	remaining: 14.7s
445:	learn: 0.2061908	total: 1m 59s	remaining: 14.4s
446:	learn: 0.2061414	total: 1m 59s	remaining: 14.2s
447:	learn: 0.2061095	total: 1m 59s	remaining: 13.9s
448:	learn: 0.2060906	total: 2m	remaining: 13.6s
449:	learn: 0.2060188	total: 2m	remaining: 13.4s
450:	learn: 0.2060033	total: 2m	remaining: 13.1s
451:	learn: 0.2058912	total: 2m	remaining: 12.8s
452:	learn: 0.2058317	total: 2m 1s	remaining: 12.6s
453:	learn: 0.2057474	total: 2m 1s	remaining: 12.3s
454:	learn: 0.2057089	total: 2m 1s	remaining: 12s
455:	learn: 0.2056506	total: 2m 2s	remaining: 11.8s
456:	learn: 0.2056216	total: 2m 2s	remaining: 11.5s
457:	learn: 0.2055867	total: 2m 2s	remaining: 11.2s
458:	learn: 0.2054979	total: 2m 2s	remaining: 11s
459:	learn: 0.2054522	total: 2m 3s	remaining: 10.7s
460:	learn: 0.2054345	total: 2m 3s	remaining: 10.4s
461:	learn: 0.2053938	total: 2m 3s	remaining: 10.2s
462:	learn: 0.2053424	total: 2m 3s	remaining: 9.91s
463:	learn: 0.2052645	total: 2m 4s	remaining: 9.64s
464:	learn: 0.2052033	total: 2m 4s	remaining: 9.38s
465:	learn: 0.2051874	total: 2m 4s	remaining: 9.11s
466:	learn: 0.2051189	total: 2m 5s	remaining: 8.84s
467:	learn: 0.2051080	total: 2m 5s	remaining: 8.57s
468:	learn: 0.2050880	total: 2m 5s	remaining: 8.3s
469:	learn: 0.2050551	total: 2m 5s	remaining: 8.04s
470:	learn: 0.2049754	total: 2m 6s	remaining: 7.77s
471:	learn: 0.2049377	total: 2m 6s	remaining: 7.5s
472:	learn: 0.2048142	total: 2m 6s	remaining: 7.23s
473:	learn: 0.2047317	total: 2m 6s	remaining: 6.96s
474:	learn: 0.2046892	total: 2m 7s	remaining: 6.7s
475:	learn: 0.2046503	total: 2m 7s	remaining: 6.43s
476:	learn: 0.2045587	total: 2m 7s	remaining: 6.16s
477:	learn: 0.2044280	total: 2m 7s	remaining: 5.89s

478:	learn: 0.2043744	total: 2m 8s	remaining: 5.62s
479:	learn: 0.2042970	total: 2m 8s	remaining: 5.35s
480:	learn: 0.2041518	total: 2m 8s	remaining: 5.08s
481:	learn: 0.2041373	total: 2m 8s	remaining: 4.82s
482:	learn: 0.2040706	total: 2m 9s	remaining: 4.55s
483:	learn: 0.2039903	total: 2m 9s	remaining: 4.28s
484:	learn: 0.2039265	total: 2m 9s	remaining: 4.01s
485:	learn: 0.2038597	total: 2m 9s	remaining: 3.74s
486:	learn: 0.2038332	total: 2m 10s	remaining: 3.47s
487:	learn: 0.2037652	total: 2m 10s	remaining: 3.21s
488:	learn: 0.2037029	total: 2m 10s	remaining: 2.94s
489:	learn: 0.2035314	total: 2m 11s	remaining: 2.67s
490:	learn: 0.2035075	total: 2m 11s	remaining: 2.4s
491:	learn: 0.2034267	total: 2m 11s	remaining: 2.14s
492:	learn: 0.2033873	total: 2m 11s	remaining: 1.87s
493:	learn: 0.2032960	total: 2m 12s	remaining: 1.6s
494:	learn: 0.2032650	total: 2m 12s	remaining: 1.34s
495:	learn: 0.2032401	total: 2m 12s	remaining: 1.07s
496:	learn: 0.2031911	total: 2m 12s	remaining: 802ms
497:	learn: 0.2031562	total: 2m 13s	remaining: 535ms
498:	learn: 0.2031257	total: 2m 13s	remaining: 267ms
499:	learn: 0.2030595	total: 2m 13s	remaining: 0us
Learning rate set to 0.174288			
0:	learn: 0.9730200	total: 275ms	remaining: 2m 17s
1:	learn: 0.8897738	total: 553ms	remaining: 2m 17s
2:	learn: 0.8300559	total: 768ms	remaining: 2m 7s
3:	learn: 0.7869539	total: 938ms	remaining: 1m 56s
4:	learn: 0.6816113	total: 1.15s	remaining: 1m 53s
5:	learn: 0.5982421	total: 1.37s	remaining: 1m 52s
6:	learn: 0.5640157	total: 1.57s	remaining: 1m 50s
7:	learn: 0.5132655	total: 1.8s	remaining: 1m 50s
8:	learn: 0.4853489	total: 2.03s	remaining: 1m 50s
9:	learn: 0.4620767	total: 2.25s	remaining: 1m 50s
10:	learn: 0.4537139	total: 2.46s	remaining: 1m 49s
11:	learn: 0.4206320	total: 2.67s	remaining: 1m 48s
12:	learn: 0.3947966	total: 2.9s	remaining: 1m 48s
13:	learn: 0.3891090	total: 3.18s	remaining: 1m 50s
14:	learn: 0.3674795	total: 3.46s	remaining: 1m 51s
15:	learn: 0.3506674	total: 3.73s	remaining: 1m 52s
16:	learn: 0.3369340	total: 4s	remaining: 1m 53s
17:	learn: 0.3269735	total: 4.29s	remaining: 1m 54s
18:	learn: 0.3158469	total: 4.59s	remaining: 1m 56s
19:	learn: 0.3078270	total: 4.87s	remaining: 1m 56s
20:	learn: 0.3051346	total: 5.17s	remaining: 1m 57s
21:	learn: 0.2983504	total: 5.48s	remaining: 1m 59s
22:	learn: 0.2969992	total: 5.74s	remaining: 1m 59s
23:	learn: 0.2944420	total: 6.01s	remaining: 1m 59s
24:	learn: 0.2902898	total: 6.28s	remaining: 1m 59s

25:	learn: 0.2889166	total: 6.53s	remaining: 1m 59s
26:	learn: 0.2850886	total: 6.79s	remaining: 1m 58s
27:	learn: 0.2781643	total: 7.06s	remaining: 1m 58s
28:	learn: 0.2729671	total: 7.28s	remaining: 1m 58s
29:	learn: 0.2680802	total: 7.51s	remaining: 1m 57s
30:	learn: 0.2630695	total: 7.76s	remaining: 1m 57s
31:	learn: 0.2619443	total: 8s	remaining: 1m 57s
32:	learn: 0.2605993	total: 8.25s	remaining: 1m 56s
33:	learn: 0.2600903	total: 8.5s	remaining: 1m 56s
34:	learn: 0.2570390	total: 8.78s	remaining: 1m 56s
35:	learn: 0.2566872	total: 9.05s	remaining: 1m 56s
36:	learn: 0.2562254	total: 9.3s	remaining: 1m 56s
37:	learn: 0.2553851	total: 9.56s	remaining: 1m 56s
38:	learn: 0.2548508	total: 9.79s	remaining: 1m 55s
39:	learn: 0.2546186	total: 10.1s	remaining: 1m 55s
40:	learn: 0.2542767	total: 10.3s	remaining: 1m 55s
41:	learn: 0.2539679	total: 10.6s	remaining: 1m 55s
42:	learn: 0.2535865	total: 10.8s	remaining: 1m 55s
43:	learn: 0.2529711	total: 11.1s	remaining: 1m 55s
44:	learn: 0.2524052	total: 11.4s	remaining: 1m 54s
45:	learn: 0.2513245	total: 11.6s	remaining: 1m 54s
46:	learn: 0.2509829	total: 11.9s	remaining: 1m 54s
47:	learn: 0.2507300	total: 12.2s	remaining: 1m 54s
48:	learn: 0.2504310	total: 12.5s	remaining: 1m 54s
49:	learn: 0.2499525	total: 12.7s	remaining: 1m 54s
50:	learn: 0.2488365	total: 13s	remaining: 1m 54s
51:	learn: 0.2485013	total: 13.3s	remaining: 1m 54s
52:	learn: 0.2482282	total: 13.6s	remaining: 1m 54s
53:	learn: 0.2479371	total: 13.9s	remaining: 1m 54s
54:	learn: 0.2470993	total: 14.1s	remaining: 1m 54s
55:	learn: 0.2468310	total: 14.4s	remaining: 1m 54s
56:	learn: 0.2465921	total: 14.7s	remaining: 1m 54s
57:	learn: 0.2464561	total: 15s	remaining: 1m 54s
58:	learn: 0.2438033	total: 15.3s	remaining: 1m 54s
59:	learn: 0.2436568	total: 15.6s	remaining: 1m 54s
60:	learn: 0.2434031	total: 15.8s	remaining: 1m 53s
61:	learn: 0.2433049	total: 16.1s	remaining: 1m 53s
62:	learn: 0.2431036	total: 16.3s	remaining: 1m 53s
63:	learn: 0.2428024	total: 16.6s	remaining: 1m 53s
64:	learn: 0.2425136	total: 16.9s	remaining: 1m 53s
65:	learn: 0.2423230	total: 17.2s	remaining: 1m 52s
66:	learn: 0.2419493	total: 17.4s	remaining: 1m 52s
67:	learn: 0.2416571	total: 17.7s	remaining: 1m 52s
68:	learn: 0.2412688	total: 18s	remaining: 1m 52s
69:	learn: 0.2410319	total: 18.3s	remaining: 1m 52s
70:	learn: 0.2398887	total: 18.5s	remaining: 1m 52s
71:	learn: 0.2395185	total: 18.9s	remaining: 1m 52s
72:	learn: 0.2391369	total: 19.2s	remaining: 1m 52s

73:	learn: 0.2389893	total: 19.4s	remaining: 1m 51s
74:	learn: 0.2388464	total: 19.7s	remaining: 1m 51s
75:	learn: 0.2388182	total: 20s	remaining: 1m 51s
76:	learn: 0.2387138	total: 20.3s	remaining: 1m 51s
77:	learn: 0.2384988	total: 20.6s	remaining: 1m 51s
78:	learn: 0.2383167	total: 20.9s	remaining: 1m 51s
79:	learn: 0.2381760	total: 21.2s	remaining: 1m 51s
80:	learn: 0.2380416	total: 21.5s	remaining: 1m 50s
81:	learn: 0.2379223	total: 21.8s	remaining: 1m 50s
82:	learn: 0.2377036	total: 22.1s	remaining: 1m 50s
83:	learn: 0.2375004	total: 22.3s	remaining: 1m 50s
84:	learn: 0.2373156	total: 22.6s	remaining: 1m 50s
85:	learn: 0.2370886	total: 22.8s	remaining: 1m 49s
86:	learn: 0.2368589	total: 23.1s	remaining: 1m 49s
87:	learn: 0.2367031	total: 23.4s	remaining: 1m 49s
88:	learn: 0.2365998	total: 23.7s	remaining: 1m 49s
89:	learn: 0.2364640	total: 23.9s	remaining: 1m 48s
90:	learn: 0.2363897	total: 24.2s	remaining: 1m 48s
91:	learn: 0.2363417	total: 24.4s	remaining: 1m 48s
92:	learn: 0.2361663	total: 24.7s	remaining: 1m 47s
93:	learn: 0.2360809	total: 24.8s	remaining: 1m 47s
94:	learn: 0.2358906	total: 25.1s	remaining: 1m 46s
95:	learn: 0.2351282	total: 25.3s	remaining: 1m 46s
96:	learn: 0.2349095	total: 25.6s	remaining: 1m 46s
97:	learn: 0.2346132	total: 25.9s	remaining: 1m 46s
98:	learn: 0.2345271	total: 26.1s	remaining: 1m 45s
99:	learn: 0.2343760	total: 26.3s	remaining: 1m 45s
100:	learn: 0.2342526	total: 26.5s	remaining: 1m 44s
101:	learn: 0.2340339	total: 26.8s	remaining: 1m 44s
102:	learn: 0.2338459	total: 27s	remaining: 1m 44s
103:	learn: 0.2337930	total: 27.3s	remaining: 1m 43s
104:	learn: 0.2330868	total: 27.5s	remaining: 1m 43s
105:	learn: 0.2329685	total: 27.8s	remaining: 1m 43s
106:	learn: 0.2329109	total: 28.1s	remaining: 1m 43s
107:	learn: 0.2326868	total: 28.4s	remaining: 1m 43s
108:	learn: 0.2326390	total: 28.7s	remaining: 1m 42s
109:	learn: 0.2325871	total: 29s	remaining: 1m 42s
110:	learn: 0.2324614	total: 29.2s	remaining: 1m 42s
111:	learn: 0.2323507	total: 29.5s	remaining: 1m 42s
112:	learn: 0.2322094	total: 29.8s	remaining: 1m 42s
113:	learn: 0.2321191	total: 30.1s	remaining: 1m 41s
114:	learn: 0.2315599	total: 30.4s	remaining: 1m 41s
115:	learn: 0.2309700	total: 30.6s	remaining: 1m 41s
116:	learn: 0.2309127	total: 30.9s	remaining: 1m 41s
117:	learn: 0.2307699	total: 31.2s	remaining: 1m 40s
118:	learn: 0.2305918	total: 31.5s	remaining: 1m 40s
119:	learn: 0.2304523	total: 31.7s	remaining: 1m 40s
120:	learn: 0.2302358	total: 32s	remaining: 1m 40s

121:	learn: 0.2301192	total: 32.3s	remaining: 1m 39s
122:	learn: 0.2300092	total: 32.6s	remaining: 1m 39s
123:	learn: 0.2299586	total: 32.9s	remaining: 1m 39s
124:	learn: 0.2295506	total: 33.1s	remaining: 1m 39s
125:	learn: 0.2292116	total: 33.4s	remaining: 1m 39s
126:	learn: 0.2291475	total: 33.7s	remaining: 1m 39s
127:	learn: 0.2288106	total: 34s	remaining: 1m 38s
128:	learn: 0.2287328	total: 34.3s	remaining: 1m 38s
129:	learn: 0.2286459	total: 34.6s	remaining: 1m 38s
130:	learn: 0.2285283	total: 34.9s	remaining: 1m 38s
131:	learn: 0.2283550	total: 35.1s	remaining: 1m 37s
132:	learn: 0.2282366	total: 35.4s	remaining: 1m 37s
133:	learn: 0.2281076	total: 35.7s	remaining: 1m 37s
134:	learn: 0.2280071	total: 36s	remaining: 1m 37s
135:	learn: 0.2279568	total: 36.3s	remaining: 1m 37s
136:	learn: 0.2277350	total: 36.5s	remaining: 1m 36s
137:	learn: 0.2274383	total: 36.8s	remaining: 1m 36s
138:	learn: 0.2273858	total: 37.1s	remaining: 1m 36s
139:	learn: 0.2271669	total: 37.4s	remaining: 1m 36s
140:	learn: 0.2270024	total: 37.6s	remaining: 1m 35s
141:	learn: 0.2269725	total: 37.9s	remaining: 1m 35s
142:	learn: 0.2269310	total: 38.2s	remaining: 1m 35s
143:	learn: 0.2268378	total: 38.4s	remaining: 1m 35s
144:	learn: 0.2267892	total: 38.7s	remaining: 1m 34s
145:	learn: 0.2267588	total: 39s	remaining: 1m 34s
146:	learn: 0.2266656	total: 39.3s	remaining: 1m 34s
147:	learn: 0.2265727	total: 39.5s	remaining: 1m 33s
148:	learn: 0.2264694	total: 39.8s	remaining: 1m 33s
149:	learn: 0.2262931	total: 40s	remaining: 1m 33s
150:	learn: 0.2262395	total: 40.3s	remaining: 1m 33s
151:	learn: 0.2261261	total: 40.5s	remaining: 1m 32s
152:	learn: 0.2259971	total: 40.8s	remaining: 1m 32s
153:	learn: 0.2259771	total: 41s	remaining: 1m 32s
154:	learn: 0.2259026	total: 41.3s	remaining: 1m 31s
155:	learn: 0.2258097	total: 41.5s	remaining: 1m 31s
156:	learn: 0.2256710	total: 41.8s	remaining: 1m 31s
157:	learn: 0.2254580	total: 42.1s	remaining: 1m 31s
158:	learn: 0.2254129	total: 42.3s	remaining: 1m 30s
159:	learn: 0.2253280	total: 42.6s	remaining: 1m 30s
160:	learn: 0.2252798	total: 42.8s	remaining: 1m 30s
161:	learn: 0.2252198	total: 43.1s	remaining: 1m 29s
162:	learn: 0.2251356	total: 43.3s	remaining: 1m 29s
163:	learn: 0.2250849	total: 43.6s	remaining: 1m 29s
164:	learn: 0.2250081	total: 43.9s	remaining: 1m 29s
165:	learn: 0.2249154	total: 44.2s	remaining: 1m 28s
166:	learn: 0.2248613	total: 44.4s	remaining: 1m 28s
167:	learn: 0.2246929	total: 44.7s	remaining: 1m 28s
168:	learn: 0.2245891	total: 45s	remaining: 1m 28s

169:	learn: 0.2245528	total: 45.3s	remaining: 1m 27s
170:	learn: 0.2244855	total: 45.6s	remaining: 1m 27s
171:	learn: 0.2244409	total: 45.8s	remaining: 1m 27s
172:	learn: 0.2243707	total: 46.1s	remaining: 1m 27s
173:	learn: 0.2243398	total: 46.4s	remaining: 1m 26s
174:	learn: 0.2242997	total: 46.7s	remaining: 1m 26s
175:	learn: 0.2242687	total: 46.9s	remaining: 1m 26s
176:	learn: 0.2241695	total: 47.2s	remaining: 1m 26s
177:	learn: 0.2240935	total: 47.4s	remaining: 1m 25s
178:	learn: 0.2239818	total: 47.7s	remaining: 1m 25s
179:	learn: 0.2239187	total: 48s	remaining: 1m 25s
180:	learn: 0.2236495	total: 48.3s	remaining: 1m 25s
181:	learn: 0.2234905	total: 48.5s	remaining: 1m 24s
182:	learn: 0.2234728	total: 48.8s	remaining: 1m 24s
183:	learn: 0.2233271	total: 49.1s	remaining: 1m 24s
184:	learn: 0.2230675	total: 49.4s	remaining: 1m 24s
185:	learn: 0.2229642	total: 49.7s	remaining: 1m 23s
186:	learn: 0.2228703	total: 50s	remaining: 1m 23s
187:	learn: 0.2228226	total: 50.2s	remaining: 1m 23s
188:	learn: 0.2227879	total: 50.5s	remaining: 1m 23s
189:	learn: 0.2227397	total: 50.8s	remaining: 1m 22s
190:	learn: 0.2227095	total: 51.1s	remaining: 1m 22s
191:	learn: 0.2226814	total: 51.3s	remaining: 1m 22s
192:	learn: 0.2225661	total: 51.5s	remaining: 1m 21s
193:	learn: 0.2224686	total: 51.8s	remaining: 1m 21s
194:	learn: 0.2223418	total: 52s	remaining: 1m 21s
195:	learn: 0.2221157	total: 52.2s	remaining: 1m 20s
196:	learn: 0.2220170	total: 52.4s	remaining: 1m 20s
197:	learn: 0.2208608	total: 52.6s	remaining: 1m 20s
198:	learn: 0.2207586	total: 52.8s	remaining: 1m 19s
199:	learn: 0.2206580	total: 53s	remaining: 1m 19s
200:	learn: 0.2206112	total: 53.2s	remaining: 1m 19s
201:	learn: 0.2205771	total: 53.4s	remaining: 1m 18s
202:	learn: 0.2205192	total: 53.6s	remaining: 1m 18s
203:	learn: 0.2203916	total: 53.8s	remaining: 1m 18s
204:	learn: 0.2202734	total: 54.1s	remaining: 1m 17s
205:	learn: 0.2201718	total: 54.4s	remaining: 1m 17s
206:	learn: 0.2201433	total: 54.6s	remaining: 1m 17s
207:	learn: 0.2201213	total: 54.9s	remaining: 1m 17s
208:	learn: 0.2199945	total: 55.2s	remaining: 1m 16s
209:	learn: 0.2199006	total: 55.4s	remaining: 1m 16s
210:	learn: 0.2194677	total: 55.7s	remaining: 1m 16s
211:	learn: 0.2194534	total: 55.9s	remaining: 1m 15s
212:	learn: 0.2193999	total: 56.2s	remaining: 1m 15s
213:	learn: 0.2193309	total: 56.4s	remaining: 1m 15s
214:	learn: 0.2192947	total: 56.7s	remaining: 1m 15s
215:	learn: 0.2192149	total: 56.9s	remaining: 1m 14s
216:	learn: 0.2191037	total: 57.1s	remaining: 1m 14s

217:	learn: 0.2190858	total: 57.4s	remaining: 1m 14s
218:	learn: 0.2190315	total: 57.6s	remaining: 1m 13s
219:	learn: 0.2189068	total: 57.9s	remaining: 1m 13s
220:	learn: 0.2188566	total: 58.1s	remaining: 1m 13s
221:	learn: 0.2188279	total: 58.3s	remaining: 1m 13s
222:	learn: 0.2188074	total: 58.5s	remaining: 1m 12s
223:	learn: 0.2187426	total: 58.8s	remaining: 1m 12s
224:	learn: 0.2186263	total: 59s	remaining: 1m 12s
225:	learn: 0.2184484	total: 59.3s	remaining: 1m 11s
226:	learn: 0.2183412	total: 59.6s	remaining: 1m 11s
227:	learn: 0.2183036	total: 59.8s	remaining: 1m 11s
228:	learn: 0.2182743	total: 1m	remaining: 1m 11s
229:	learn: 0.2180962	total: 1m	remaining: 1m 10s
230:	learn: 0.2177478	total: 1m	remaining: 1m 10s
231:	learn: 0.2176335	total: 1m	remaining: 1m 10s
232:	learn: 0.2175396	total: 1m 1s	remaining: 1m 10s
233:	learn: 0.2174842	total: 1m 1s	remaining: 1m 9s
234:	learn: 0.2174369	total: 1m 1s	remaining: 1m 9s
235:	learn: 0.2174119	total: 1m 1s	remaining: 1m 9s
236:	learn: 0.2173747	total: 1m 2s	remaining: 1m 8s
237:	learn: 0.2173366	total: 1m 2s	remaining: 1m 8s
238:	learn: 0.2166759	total: 1m 2s	remaining: 1m 8s
239:	learn: 0.2166223	total: 1m 2s	remaining: 1m 8s
240:	learn: 0.2165688	total: 1m 3s	remaining: 1m 7s
241:	learn: 0.2164910	total: 1m 3s	remaining: 1m 7s
242:	learn: 0.2163549	total: 1m 3s	remaining: 1m 7s
243:	learn: 0.2162824	total: 1m 4s	remaining: 1m 7s
244:	learn: 0.2161928	total: 1m 4s	remaining: 1m 6s
245:	learn: 0.2161630	total: 1m 4s	remaining: 1m 6s
246:	learn: 0.2160494	total: 1m 4s	remaining: 1m 6s
247:	learn: 0.2159952	total: 1m 5s	remaining: 1m 6s
248:	learn: 0.2159391	total: 1m 5s	remaining: 1m 5s
249:	learn: 0.2159157	total: 1m 5s	remaining: 1m 5s
250:	learn: 0.2157573	total: 1m 6s	remaining: 1m 5s
251:	learn: 0.2157284	total: 1m 6s	remaining: 1m 5s
252:	learn: 0.2156619	total: 1m 6s	remaining: 1m 4s
253:	learn: 0.2156222	total: 1m 6s	remaining: 1m 4s
254:	learn: 0.2154967	total: 1m 7s	remaining: 1m 4s
255:	learn: 0.2154423	total: 1m 7s	remaining: 1m 4s
256:	learn: 0.2153722	total: 1m 7s	remaining: 1m 4s
257:	learn: 0.2153170	total: 1m 7s	remaining: 1m 3s
258:	learn: 0.2152977	total: 1m 8s	remaining: 1m 3s
259:	learn: 0.2152426	total: 1m 8s	remaining: 1m 3s
260:	learn: 0.2150752	total: 1m 8s	remaining: 1m 2s
261:	learn: 0.2150114	total: 1m 9s	remaining: 1m 2s
262:	learn: 0.2149060	total: 1m 9s	remaining: 1m 2s
263:	learn: 0.2147893	total: 1m 9s	remaining: 1m 2s
264:	learn: 0.2147485	total: 1m 9s	remaining: 1m 1s

265:	learn: 0.2146485	total: 1m 10s	remaining: 1m 1s
266:	learn: 0.2144950	total: 1m 10s	remaining: 1m 1s
267:	learn: 0.2143570	total: 1m 10s	remaining: 1m 1s
268:	learn: 0.2142928	total: 1m 10s	remaining: 1m
269:	learn: 0.2142612	total: 1m 11s	remaining: 1m
270:	learn: 0.2142095	total: 1m 11s	remaining: 1m
271:	learn: 0.2140777	total: 1m 11s	remaining: 1m
272:	learn: 0.2139425	total: 1m 11s	remaining: 59.9s
273:	learn: 0.2138838	total: 1m 12s	remaining: 59.6s
274:	learn: 0.2138405	total: 1m 12s	remaining: 59.3s
275:	learn: 0.2136067	total: 1m 12s	remaining: 59s
276:	learn: 0.2135691	total: 1m 12s	remaining: 58.7s
277:	learn: 0.2134514	total: 1m 13s	remaining: 58.5s
278:	learn: 0.2133945	total: 1m 13s	remaining: 58.2s
279:	learn: 0.2133862	total: 1m 13s	remaining: 57.9s
280:	learn: 0.2132940	total: 1m 14s	remaining: 57.7s
281:	learn: 0.2132009	total: 1m 14s	remaining: 57.4s
282:	learn: 0.2130663	total: 1m 14s	remaining: 57.1s
283:	learn: 0.2130127	total: 1m 14s	remaining: 56.9s
284:	learn: 0.2128396	total: 1m 15s	remaining: 56.6s
285:	learn: 0.2128266	total: 1m 15s	remaining: 56.3s
286:	learn: 0.2127644	total: 1m 15s	remaining: 56s
287:	learn: 0.2126297	total: 1m 15s	remaining: 55.7s
288:	learn: 0.2125721	total: 1m 15s	remaining: 55.5s
289:	learn: 0.2124928	total: 1m 16s	remaining: 55.2s
290:	learn: 0.2124284	total: 1m 16s	remaining: 54.9s
291:	learn: 0.2123025	total: 1m 16s	remaining: 54.7s
292:	learn: 0.2122409	total: 1m 16s	remaining: 54.4s
293:	learn: 0.2122087	total: 1m 17s	remaining: 54.1s
294:	learn: 0.2121321	total: 1m 17s	remaining: 53.9s
295:	learn: 0.2120725	total: 1m 17s	remaining: 53.6s
296:	learn: 0.2119838	total: 1m 18s	remaining: 53.4s
297:	learn: 0.2118791	total: 1m 18s	remaining: 53.1s
298:	learn: 0.2118168	total: 1m 18s	remaining: 52.9s
299:	learn: 0.2117720	total: 1m 18s	remaining: 52.6s
300:	learn: 0.2116943	total: 1m 19s	remaining: 52.4s
301:	learn: 0.2116489	total: 1m 19s	remaining: 52.1s
302:	learn: 0.2115909	total: 1m 19s	remaining: 51.9s
303:	learn: 0.2114708	total: 1m 20s	remaining: 51.6s
304:	learn: 0.2114304	total: 1m 20s	remaining: 51.4s
305:	learn: 0.2113636	total: 1m 20s	remaining: 51.1s
306:	learn: 0.2112985	total: 1m 20s	remaining: 50.9s
307:	learn: 0.2111220	total: 1m 21s	remaining: 50.6s
308:	learn: 0.2110031	total: 1m 21s	remaining: 50.3s
309:	learn: 0.2109616	total: 1m 21s	remaining: 50.1s
310:	learn: 0.2109239	total: 1m 22s	remaining: 49.8s
311:	learn: 0.2108325	total: 1m 22s	remaining: 49.6s
312:	learn: 0.2107766	total: 1m 22s	remaining: 49.3s

313:	learn: 0.2106935	total: 1m 22s	remaining: 49.1s
314:	learn: 0.2106662	total: 1m 23s	remaining: 48.8s
315:	learn: 0.2106358	total: 1m 23s	remaining: 48.5s
316:	learn: 0.2105496	total: 1m 23s	remaining: 48.2s
317:	learn: 0.2104975	total: 1m 23s	remaining: 47.9s
318:	learn: 0.2104015	total: 1m 23s	remaining: 47.6s
319:	learn: 0.2102151	total: 1m 24s	remaining: 47.3s
320:	learn: 0.2101904	total: 1m 24s	remaining: 47s
321:	learn: 0.2100874	total: 1m 24s	remaining: 46.8s
322:	learn: 0.2100266	total: 1m 24s	remaining: 46.5s
323:	learn: 0.2099784	total: 1m 24s	remaining: 46.2s
324:	learn: 0.2099512	total: 1m 25s	remaining: 45.9s
325:	learn: 0.2098982	total: 1m 25s	remaining: 45.6s
326:	learn: 0.2098735	total: 1m 25s	remaining: 45.3s
327:	learn: 0.2098455	total: 1m 25s	remaining: 45s
328:	learn: 0.2097608	total: 1m 26s	remaining: 44.8s
329:	learn: 0.2096575	total: 1m 26s	remaining: 44.5s
330:	learn: 0.2095527	total: 1m 26s	remaining: 44.2s
331:	learn: 0.2095370	total: 1m 26s	remaining: 44s
332:	learn: 0.2094412	total: 1m 27s	remaining: 43.7s
333:	learn: 0.2093831	total: 1m 27s	remaining: 43.4s
334:	learn: 0.2093504	total: 1m 27s	remaining: 43.2s
335:	learn: 0.2092722	total: 1m 27s	remaining: 42.9s
336:	learn: 0.2092334	total: 1m 28s	remaining: 42.6s
337:	learn: 0.2091913	total: 1m 28s	remaining: 42.4s
338:	learn: 0.2091594	total: 1m 28s	remaining: 42.1s
339:	learn: 0.2090899	total: 1m 28s	remaining: 41.8s
340:	learn: 0.2090634	total: 1m 29s	remaining: 41.6s
341:	learn: 0.2090081	total: 1m 29s	remaining: 41.3s
342:	learn: 0.2088894	total: 1m 29s	remaining: 41s
343:	learn: 0.2088496	total: 1m 29s	remaining: 40.8s
344:	learn: 0.2087080	total: 1m 30s	remaining: 40.5s
345:	learn: 0.2085527	total: 1m 30s	remaining: 40.2s
346:	learn: 0.2084962	total: 1m 30s	remaining: 40s
347:	learn: 0.2083559	total: 1m 30s	remaining: 39.7s
348:	learn: 0.2082904	total: 1m 31s	remaining: 39.4s
349:	learn: 0.2082270	total: 1m 31s	remaining: 39.2s
350:	learn: 0.2081068	total: 1m 31s	remaining: 38.9s
351:	learn: 0.2080730	total: 1m 31s	remaining: 38.7s
352:	learn: 0.2080578	total: 1m 32s	remaining: 38.4s
353:	learn: 0.2079971	total: 1m 32s	remaining: 38.1s
354:	learn: 0.2079549	total: 1m 32s	remaining: 37.9s
355:	learn: 0.2079132	total: 1m 33s	remaining: 37.6s
356:	learn: 0.2078425	total: 1m 33s	remaining: 37.4s
357:	learn: 0.2078107	total: 1m 33s	remaining: 37.1s
358:	learn: 0.2077079	total: 1m 33s	remaining: 36.9s
359:	learn: 0.2076036	total: 1m 34s	remaining: 36.7s
360:	learn: 0.2075264	total: 1m 34s	remaining: 36.4s

361:	learn: 0.2074918	total: 1m 34s	remaining: 36.2s
362:	learn: 0.2074011	total: 1m 35s	remaining: 35.9s
363:	learn: 0.2073261	total: 1m 35s	remaining: 35.6s
364:	learn: 0.2070182	total: 1m 35s	remaining: 35.4s
365:	learn: 0.2069719	total: 1m 35s	remaining: 35.1s
366:	learn: 0.2069541	total: 1m 36s	remaining: 34.8s
367:	learn: 0.2068292	total: 1m 36s	remaining: 34.6s
368:	learn: 0.2067355	total: 1m 36s	remaining: 34.3s
369:	learn: 0.2066936	total: 1m 36s	remaining: 34.1s
370:	learn: 0.2066387	total: 1m 37s	remaining: 33.8s
371:	learn: 0.2065494	total: 1m 37s	remaining: 33.6s
372:	learn: 0.2065167	total: 1m 37s	remaining: 33.3s
373:	learn: 0.2064571	total: 1m 38s	remaining: 33.1s
374:	learn: 0.2063663	total: 1m 38s	remaining: 32.9s
375:	learn: 0.2062733	total: 1m 38s	remaining: 32.6s
376:	learn: 0.2061659	total: 1m 39s	remaining: 32.4s
377:	learn: 0.2061131	total: 1m 39s	remaining: 32.1s
378:	learn: 0.2060596	total: 1m 39s	remaining: 31.9s
379:	learn: 0.2060351	total: 1m 40s	remaining: 31.6s
380:	learn: 0.2058907	total: 1m 40s	remaining: 31.3s
381:	learn: 0.2058546	total: 1m 40s	remaining: 31.1s
382:	learn: 0.2058417	total: 1m 40s	remaining: 30.8s
383:	learn: 0.2057909	total: 1m 41s	remaining: 30.6s
384:	learn: 0.2057559	total: 1m 41s	remaining: 30.3s
385:	learn: 0.2057193	total: 1m 41s	remaining: 30s
386:	learn: 0.2056187	total: 1m 41s	remaining: 29.7s
387:	learn: 0.2055716	total: 1m 42s	remaining: 29.5s
388:	learn: 0.2055118	total: 1m 42s	remaining: 29.2s
389:	learn: 0.2054980	total: 1m 42s	remaining: 29s
390:	learn: 0.2054615	total: 1m 42s	remaining: 28.7s
391:	learn: 0.2054207	total: 1m 43s	remaining: 28.4s
392:	learn: 0.2053043	total: 1m 43s	remaining: 28.2s
393:	learn: 0.2052498	total: 1m 43s	remaining: 27.9s
394:	learn: 0.2052233	total: 1m 43s	remaining: 27.6s
395:	learn: 0.2051642	total: 1m 44s	remaining: 27.4s
396:	learn: 0.2050958	total: 1m 44s	remaining: 27.1s
397:	learn: 0.2050793	total: 1m 44s	remaining: 26.8s
398:	learn: 0.2050087	total: 1m 44s	remaining: 26.6s
399:	learn: 0.2049895	total: 1m 45s	remaining: 26.3s
400:	learn: 0.2048435	total: 1m 45s	remaining: 26s
401:	learn: 0.2047511	total: 1m 45s	remaining: 25.8s
402:	learn: 0.2047168	total: 1m 45s	remaining: 25.5s
403:	learn: 0.2046183	total: 1m 46s	remaining: 25.2s
404:	learn: 0.2045761	total: 1m 46s	remaining: 25s
405:	learn: 0.2045221	total: 1m 46s	remaining: 24.7s
406:	learn: 0.2045070	total: 1m 46s	remaining: 24.4s
407:	learn: 0.2044369	total: 1m 47s	remaining: 24.2s
408:	learn: 0.2043960	total: 1m 47s	remaining: 23.9s

409:	learn: 0.2043579	total: 1m 47s	remaining: 23.7s
410:	learn: 0.2043150	total: 1m 48s	remaining: 23.4s
411:	learn: 0.2042546	total: 1m 48s	remaining: 23.1s
412:	learn: 0.2042421	total: 1m 48s	remaining: 22.9s
413:	learn: 0.2042180	total: 1m 48s	remaining: 22.6s
414:	learn: 0.2041894	total: 1m 49s	remaining: 22.3s
415:	learn: 0.2040834	total: 1m 49s	remaining: 22.1s
416:	learn: 0.2040632	total: 1m 49s	remaining: 21.8s
417:	learn: 0.2040403	total: 1m 49s	remaining: 21.6s
418:	learn: 0.2039712	total: 1m 50s	remaining: 21.3s
419:	learn: 0.2038895	total: 1m 50s	remaining: 21s
420:	learn: 0.2038517	total: 1m 50s	remaining: 20.8s
421:	learn: 0.2038302	total: 1m 50s	remaining: 20.5s
422:	learn: 0.2037915	total: 1m 51s	remaining: 20.3s
423:	learn: 0.2037696	total: 1m 51s	remaining: 20s
424:	learn: 0.2037524	total: 1m 51s	remaining: 19.7s
425:	learn: 0.2037114	total: 1m 52s	remaining: 19.5s
426:	learn: 0.2036667	total: 1m 52s	remaining: 19.2s
427:	learn: 0.2036099	total: 1m 52s	remaining: 18.9s
428:	learn: 0.2034625	total: 1m 52s	remaining: 18.7s
429:	learn: 0.2034403	total: 1m 53s	remaining: 18.4s
430:	learn: 0.2034266	total: 1m 53s	remaining: 18.2s
431:	learn: 0.2034002	total: 1m 53s	remaining: 17.9s
432:	learn: 0.2033657	total: 1m 53s	remaining: 17.6s
433:	learn: 0.2032904	total: 1m 54s	remaining: 17.4s
434:	learn: 0.2032601	total: 1m 54s	remaining: 17.1s
435:	learn: 0.2032119	total: 1m 54s	remaining: 16.8s
436:	learn: 0.2031469	total: 1m 54s	remaining: 16.6s
437:	learn: 0.2031129	total: 1m 55s	remaining: 16.3s
438:	learn: 0.2030767	total: 1m 55s	remaining: 16s
439:	learn: 0.2030568	total: 1m 55s	remaining: 15.8s
440:	learn: 0.2030099	total: 1m 56s	remaining: 15.5s
441:	learn: 0.2028740	total: 1m 56s	remaining: 15.3s
442:	learn: 0.2028293	total: 1m 56s	remaining: 15s
443:	learn: 0.2027518	total: 1m 56s	remaining: 14.7s
444:	learn: 0.2026591	total: 1m 57s	remaining: 14.5s
445:	learn: 0.2026118	total: 1m 57s	remaining: 14.2s
446:	learn: 0.2024887	total: 1m 57s	remaining: 14s
447:	learn: 0.2023952	total: 1m 57s	remaining: 13.7s
448:	learn: 0.2023402	total: 1m 58s	remaining: 13.4s
449:	learn: 0.2023141	total: 1m 58s	remaining: 13.2s
450:	learn: 0.2023046	total: 1m 58s	remaining: 12.9s
451:	learn: 0.2022641	total: 1m 59s	remaining: 12.6s
452:	learn: 0.2022421	total: 1m 59s	remaining: 12.4s
453:	learn: 0.2022030	total: 1m 59s	remaining: 12.1s
454:	learn: 0.2021130	total: 1m 59s	remaining: 11.9s
455:	learn: 0.2020801	total: 2m	remaining: 11.6s
456:	learn: 0.2020714	total: 2m	remaining: 11.3s

457:	learn: 0.2018675	total: 2m	remaining: 11.1s
458:	learn: 0.2018120	total: 2m	remaining: 10.8s
459:	learn: 0.2017699	total: 2m 1s	remaining: 10.5s
460:	learn: 0.2016767	total: 2m 1s	remaining: 10.3s
461:	learn: 0.2016455	total: 2m 1s	remaining: 10s
462:	learn: 0.2015600	total: 2m 1s	remaining: 9.74s
463:	learn: 0.2014744	total: 2m 2s	remaining: 9.48s
464:	learn: 0.2014368	total: 2m 2s	remaining: 9.21s
465:	learn: 0.2013700	total: 2m 2s	remaining: 8.95s
466:	learn: 0.2013113	total: 2m 2s	remaining: 8.68s
467:	learn: 0.2012512	total: 2m 3s	remaining: 8.42s
468:	learn: 0.2012216	total: 2m 3s	remaining: 8.15s
469:	learn: 0.2011907	total: 2m 3s	remaining: 7.89s
470:	learn: 0.2011511	total: 2m 3s	remaining: 7.62s
471:	learn: 0.2010445	total: 2m 4s	remaining: 7.36s
472:	learn: 0.2009956	total: 2m 4s	remaining: 7.1s
473:	learn: 0.2009560	total: 2m 4s	remaining: 6.84s
474:	learn: 0.2009085	total: 2m 4s	remaining: 6.57s
475:	learn: 0.2008464	total: 2m 5s	remaining: 6.31s
476:	learn: 0.2007240	total: 2m 5s	remaining: 6.05s
477:	learn: 0.2007130	total: 2m 5s	remaining: 5.79s
478:	learn: 0.2006327	total: 2m 6s	remaining: 5.53s
479:	learn: 0.2006117	total: 2m 6s	remaining: 5.26s
480:	learn: 0.2005849	total: 2m 6s	remaining: 5s
481:	learn: 0.2004824	total: 2m 6s	remaining: 4.74s
482:	learn: 0.2004512	total: 2m 7s	remaining: 4.47s
483:	learn: 0.2004057	total: 2m 7s	remaining: 4.21s
484:	learn: 0.2003135	total: 2m 7s	remaining: 3.95s
485:	learn: 0.2002975	total: 2m 7s	remaining: 3.69s
486:	learn: 0.2002199	total: 2m 8s	remaining: 3.42s
487:	learn: 0.2000273	total: 2m 8s	remaining: 3.16s
488:	learn: 0.1999836	total: 2m 8s	remaining: 2.9s
489:	learn: 0.1999137	total: 2m 9s	remaining: 2.63s
490:	learn: 0.1998717	total: 2m 9s	remaining: 2.37s
491:	learn: 0.1998295	total: 2m 9s	remaining: 2.11s
492:	learn: 0.1997458	total: 2m 9s	remaining: 1.84s
493:	learn: 0.1996720	total: 2m 10s	remaining: 1.58s
494:	learn: 0.1996460	total: 2m 10s	remaining: 1.32s
495:	learn: 0.1995756	total: 2m 10s	remaining: 1.05s
496:	learn: 0.1995448	total: 2m 11s	remaining: 791ms
497:	learn: 0.1995025	total: 2m 11s	remaining: 527ms
498:	learn: 0.1994633	total: 2m 11s	remaining: 264ms
499:	learn: 0.1993889	total: 2m 11s	remaining: 0us
Learning rate set to 0.174288			
0:	learn: 0.9757351	total: 291ms	remaining: 2m 25s
1:	learn: 0.8962446	total: 531ms	remaining: 2m 12s
2:	learn: 0.8337171	total: 812ms	remaining: 2m 14s
3:	learn: 0.7881487	total: 1.04s	remaining: 2m 9s

4:	learn: 0.7037020	total: 1.26s	remaining: 2m 4s
5:	learn: 0.6421275	total: 1.48s	remaining: 2m 2s
6:	learn: 0.5694141	total: 1.69s	remaining: 1m 59s
7:	learn: 0.5519573	total: 1.88s	remaining: 1m 55s
8:	learn: 0.5102172	total: 2.08s	remaining: 1m 53s
9:	learn: 0.4710066	total: 2.3s	remaining: 1m 52s
10:	learn: 0.4389387	total: 2.49s	remaining: 1m 50s
11:	learn: 0.4319440	total: 2.69s	remaining: 1m 49s
12:	learn: 0.4076903	total: 2.86s	remaining: 1m 47s
13:	learn: 0.3881053	total: 3.05s	remaining: 1m 45s
14:	learn: 0.3730187	total: 3.25s	remaining: 1m 45s
15:	learn: 0.3595781	total: 3.5s	remaining: 1m 45s
16:	learn: 0.3490590	total: 3.73s	remaining: 1m 45s
17:	learn: 0.3330731	total: 3.98s	remaining: 1m 46s
18:	learn: 0.3204427	total: 4.26s	remaining: 1m 47s
19:	learn: 0.3182672	total: 4.51s	remaining: 1m 48s
20:	learn: 0.3159507	total: 4.76s	remaining: 1m 48s
21:	learn: 0.3057775	total: 5.03s	remaining: 1m 49s
22:	learn: 0.2971320	total: 5.29s	remaining: 1m 49s
23:	learn: 0.2954510	total: 5.54s	remaining: 1m 49s
24:	learn: 0.2943721	total: 5.8s	remaining: 1m 50s
25:	learn: 0.2932065	total: 6.07s	remaining: 1m 50s
26:	learn: 0.2919016	total: 6.33s	remaining: 1m 50s
27:	learn: 0.2856200	total: 6.64s	remaining: 1m 51s
28:	learn: 0.2811402	total: 6.92s	remaining: 1m 52s
29:	learn: 0.2801783	total: 7.21s	remaining: 1m 52s
30:	learn: 0.2782822	total: 7.47s	remaining: 1m 53s
31:	learn: 0.2735834	total: 7.76s	remaining: 1m 53s
32:	learn: 0.2724837	total: 8.07s	remaining: 1m 54s
33:	learn: 0.2713052	total: 8.34s	remaining: 1m 54s
34:	learn: 0.2676444	total: 8.62s	remaining: 1m 54s
35:	learn: 0.2650727	total: 8.92s	remaining: 1m 54s
36:	learn: 0.2604626	total: 9.23s	remaining: 1m 55s
37:	learn: 0.2597275	total: 9.53s	remaining: 1m 55s
38:	learn: 0.2560201	total: 9.8s	remaining: 1m 55s
39:	learn: 0.2555549	total: 10.1s	remaining: 1m 55s
40:	learn: 0.2525740	total: 10.3s	remaining: 1m 55s
41:	learn: 0.2522600	total: 10.7s	remaining: 1m 56s
42:	learn: 0.2519566	total: 11s	remaining: 1m 56s
43:	learn: 0.2514644	total: 11.3s	remaining: 1m 56s
44:	learn: 0.2510378	total: 11.5s	remaining: 1m 56s
45:	learn: 0.2505506	total: 11.8s	remaining: 1m 56s
46:	learn: 0.2501504	total: 12.1s	remaining: 1m 56s
47:	learn: 0.2497179	total: 12.4s	remaining: 1m 56s
48:	learn: 0.2493344	total: 12.7s	remaining: 1m 56s
49:	learn: 0.2491264	total: 12.9s	remaining: 1m 56s
50:	learn: 0.2489540	total: 13.2s	remaining: 1m 56s
51:	learn: 0.2487405	total: 13.5s	remaining: 1m 56s

52:	learn: 0.2483311	total: 13.8s	remaining: 1m 56s
53:	learn: 0.2480682	total: 14.1s	remaining: 1m 56s
54:	learn: 0.2463968	total: 14.4s	remaining: 1m 56s
55:	learn: 0.2462627	total: 14.7s	remaining: 1m 56s
56:	learn: 0.2460690	total: 14.9s	remaining: 1m 56s
57:	learn: 0.2458867	total: 15.2s	remaining: 1m 55s
58:	learn: 0.2443975	total: 15.5s	remaining: 1m 56s
59:	learn: 0.2441907	total: 15.8s	remaining: 1m 55s
60:	learn: 0.2437243	total: 16s	remaining: 1m 55s
61:	learn: 0.2434138	total: 16.3s	remaining: 1m 55s
62:	learn: 0.2430417	total: 16.6s	remaining: 1m 55s
63:	learn: 0.2428018	total: 16.9s	remaining: 1m 55s
64:	learn: 0.2427284	total: 17.2s	remaining: 1m 55s
65:	learn: 0.2424978	total: 17.5s	remaining: 1m 54s
66:	learn: 0.2421550	total: 17.8s	remaining: 1m 54s
67:	learn: 0.2420192	total: 18s	remaining: 1m 54s
68:	learn: 0.2414691	total: 18.2s	remaining: 1m 53s
69:	learn: 0.2407707	total: 18.5s	remaining: 1m 53s
70:	learn: 0.2406050	total: 18.8s	remaining: 1m 53s
71:	learn: 0.2405147	total: 19.1s	remaining: 1m 53s
72:	learn: 0.2402897	total: 19.3s	remaining: 1m 53s
73:	learn: 0.2401245	total: 19.6s	remaining: 1m 52s
74:	learn: 0.2400344	total: 19.8s	remaining: 1m 52s
75:	learn: 0.2399312	total: 20.1s	remaining: 1m 51s
76:	learn: 0.2396320	total: 20.3s	remaining: 1m 51s
77:	learn: 0.2379827	total: 20.6s	remaining: 1m 51s
78:	learn: 0.2378332	total: 20.8s	remaining: 1m 50s
79:	learn: 0.2376160	total: 21.1s	remaining: 1m 50s
80:	learn: 0.2368945	total: 21.3s	remaining: 1m 50s
81:	learn: 0.2366546	total: 21.6s	remaining: 1m 50s
82:	learn: 0.2365997	total: 21.9s	remaining: 1m 49s
83:	learn: 0.2364519	total: 22.1s	remaining: 1m 49s
84:	learn: 0.2363761	total: 22.4s	remaining: 1m 49s
85:	learn: 0.2362654	total: 22.6s	remaining: 1m 48s
86:	learn: 0.2360597	total: 22.9s	remaining: 1m 48s
87:	learn: 0.2358257	total: 23.2s	remaining: 1m 48s
88:	learn: 0.2354925	total: 23.5s	remaining: 1m 48s
89:	learn: 0.2354042	total: 23.7s	remaining: 1m 47s
90:	learn: 0.2353556	total: 24s	remaining: 1m 47s
91:	learn: 0.2352401	total: 24.3s	remaining: 1m 47s
92:	learn: 0.2349791	total: 24.6s	remaining: 1m 47s
93:	learn: 0.2347449	total: 24.9s	remaining: 1m 47s
94:	learn: 0.2346110	total: 25.1s	remaining: 1m 47s
95:	learn: 0.2345094	total: 25.4s	remaining: 1m 46s
96:	learn: 0.2343511	total: 25.7s	remaining: 1m 46s
97:	learn: 0.2338133	total: 26s	remaining: 1m 46s
98:	learn: 0.2335788	total: 26.3s	remaining: 1m 46s
99:	learn: 0.2334222	total: 26.5s	remaining: 1m 46s

100:	learn: 0.2333155	total: 26.8s	remaining: 1m 45s
101:	learn: 0.2330839	total: 27.1s	remaining: 1m 45s
102:	learn: 0.2329965	total: 27.4s	remaining: 1m 45s
103:	learn: 0.2321532	total: 27.7s	remaining: 1m 45s
104:	learn: 0.2320960	total: 27.9s	remaining: 1m 45s
105:	learn: 0.2320297	total: 28.2s	remaining: 1m 44s
106:	learn: 0.2319581	total: 28.6s	remaining: 1m 44s
107:	learn: 0.2317886	total: 28.8s	remaining: 1m 44s
108:	learn: 0.2317527	total: 29.1s	remaining: 1m 44s
109:	learn: 0.2315347	total: 29.4s	remaining: 1m 44s
110:	learn: 0.2314093	total: 29.7s	remaining: 1m 44s
111:	learn: 0.2313943	total: 29.9s	remaining: 1m 43s
112:	learn: 0.2312802	total: 30.2s	remaining: 1m 43s
113:	learn: 0.2311836	total: 30.5s	remaining: 1m 43s
114:	learn: 0.2311374	total: 30.8s	remaining: 1m 43s
115:	learn: 0.2310178	total: 31.1s	remaining: 1m 42s
116:	learn: 0.2309500	total: 31.4s	remaining: 1m 42s
117:	learn: 0.2307941	total: 31.6s	remaining: 1m 42s
118:	learn: 0.2306385	total: 31.9s	remaining: 1m 42s
119:	learn: 0.2305235	total: 32.1s	remaining: 1m 41s
120:	learn: 0.2304528	total: 32.4s	remaining: 1m 41s
121:	learn: 0.2303884	total: 32.7s	remaining: 1m 41s
122:	learn: 0.2303128	total: 32.9s	remaining: 1m 40s
123:	learn: 0.2302506	total: 33.2s	remaining: 1m 40s
124:	learn: 0.2302046	total: 33.5s	remaining: 1m 40s
125:	learn: 0.2300855	total: 33.7s	remaining: 1m 40s
126:	learn: 0.2299989	total: 34s	remaining: 1m 39s
127:	learn: 0.2298776	total: 34.3s	remaining: 1m 39s
128:	learn: 0.2298554	total: 34.6s	remaining: 1m 39s
129:	learn: 0.2297847	total: 34.8s	remaining: 1m 39s
130:	learn: 0.2297380	total: 35.1s	remaining: 1m 38s
131:	learn: 0.2296297	total: 35.3s	remaining: 1m 38s
132:	learn: 0.2295403	total: 35.7s	remaining: 1m 38s
133:	learn: 0.2295062	total: 35.9s	remaining: 1m 38s
134:	learn: 0.2293955	total: 36.1s	remaining: 1m 37s
135:	learn: 0.2293149	total: 36.4s	remaining: 1m 37s
136:	learn: 0.2292587	total: 36.6s	remaining: 1m 37s
137:	learn: 0.2290811	total: 36.9s	remaining: 1m 36s
138:	learn: 0.2290048	total: 37.2s	remaining: 1m 36s
139:	learn: 0.2285576	total: 37.4s	remaining: 1m 36s
140:	learn: 0.2285127	total: 37.7s	remaining: 1m 35s
141:	learn: 0.2284712	total: 37.9s	remaining: 1m 35s
142:	learn: 0.2284266	total: 38.2s	remaining: 1m 35s
143:	learn: 0.2283165	total: 38.4s	remaining: 1m 35s
144:	learn: 0.2282343	total: 38.7s	remaining: 1m 34s
145:	learn: 0.2282062	total: 39s	remaining: 1m 34s
146:	learn: 0.2281388	total: 39.2s	remaining: 1m 34s
147:	learn: 0.2280662	total: 39.6s	remaining: 1m 34s

148:	learn: 0.2279777	total: 39.8s	remaining: 1m 33s
149:	learn: 0.2278239	total: 40.1s	remaining: 1m 33s
150:	learn: 0.2278046	total: 40.4s	remaining: 1m 33s
151:	learn: 0.2277755	total: 40.6s	remaining: 1m 33s
152:	learn: 0.2277137	total: 40.9s	remaining: 1m 32s
153:	learn: 0.2276464	total: 41.2s	remaining: 1m 32s
154:	learn: 0.2275751	total: 41.5s	remaining: 1m 32s
155:	learn: 0.2274764	total: 41.8s	remaining: 1m 32s
156:	learn: 0.2274316	total: 42.1s	remaining: 1m 31s
157:	learn: 0.2273846	total: 42.3s	remaining: 1m 31s
158:	learn: 0.2273597	total: 42.6s	remaining: 1m 31s
159:	learn: 0.2272825	total: 42.9s	remaining: 1m 31s
160:	learn: 0.2272274	total: 43.2s	remaining: 1m 30s
161:	learn: 0.2270536	total: 43.4s	remaining: 1m 30s
162:	learn: 0.2269508	total: 43.7s	remaining: 1m 30s
163:	learn: 0.2268515	total: 44s	remaining: 1m 30s
164:	learn: 0.2267986	total: 44.3s	remaining: 1m 29s
165:	learn: 0.2266971	total: 44.6s	remaining: 1m 29s
166:	learn: 0.2265789	total: 44.9s	remaining: 1m 29s
167:	learn: 0.2265317	total: 45.2s	remaining: 1m 29s
168:	learn: 0.2264454	total: 45.4s	remaining: 1m 28s
169:	learn: 0.2263391	total: 45.6s	remaining: 1m 28s
170:	learn: 0.2262139	total: 45.9s	remaining: 1m 28s
171:	learn: 0.2261509	total: 46.2s	remaining: 1m 28s
172:	learn: 0.2260933	total: 46.5s	remaining: 1m 27s
173:	learn: 0.2260089	total: 46.7s	remaining: 1m 27s
174:	learn: 0.2259635	total: 47s	remaining: 1m 27s
175:	learn: 0.2258404	total: 47.3s	remaining: 1m 27s
176:	learn: 0.2257684	total: 47.5s	remaining: 1m 26s
177:	learn: 0.2257260	total: 47.8s	remaining: 1m 26s
178:	learn: 0.2256865	total: 48.1s	remaining: 1m 26s
179:	learn: 0.2254898	total: 48.4s	remaining: 1m 25s
180:	learn: 0.2254194	total: 48.6s	remaining: 1m 25s
181:	learn: 0.2253606	total: 48.9s	remaining: 1m 25s
182:	learn: 0.2252336	total: 49.2s	remaining: 1m 25s
183:	learn: 0.2249104	total: 49.4s	remaining: 1m 24s
184:	learn: 0.2248530	total: 49.7s	remaining: 1m 24s
185:	learn: 0.2247995	total: 50s	remaining: 1m 24s
186:	learn: 0.2247330	total: 50.2s	remaining: 1m 24s
187:	learn: 0.2245765	total: 50.5s	remaining: 1m 23s
188:	learn: 0.2245014	total: 50.8s	remaining: 1m 23s
189:	learn: 0.2244643	total: 51s	remaining: 1m 23s
190:	learn: 0.2243324	total: 51.3s	remaining: 1m 22s
191:	learn: 0.2242667	total: 51.5s	remaining: 1m 22s
192:	learn: 0.2241306	total: 51.8s	remaining: 1m 22s
193:	learn: 0.2240369	total: 52.1s	remaining: 1m 22s
194:	learn: 0.2239522	total: 52.3s	remaining: 1m 21s
195:	learn: 0.2239013	total: 52.5s	remaining: 1m 21s

196:	learn: 0.2238853	total: 52.8s	remaining: 1m 21s
197:	learn: 0.2238541	total: 53s	remaining: 1m 20s
198:	learn: 0.2238291	total: 53.3s	remaining: 1m 20s
199:	learn: 0.2237786	total: 53.5s	remaining: 1m 20s
200:	learn: 0.2234640	total: 53.7s	remaining: 1m 19s
201:	learn: 0.2233888	total: 54s	remaining: 1m 19s
202:	learn: 0.2233128	total: 54.2s	remaining: 1m 19s
203:	learn: 0.2232077	total: 54.5s	remaining: 1m 19s
204:	learn: 0.2229219	total: 54.8s	remaining: 1m 18s
205:	learn: 0.2227609	total: 55.1s	remaining: 1m 18s
206:	learn: 0.2226976	total: 55.3s	remaining: 1m 18s
207:	learn: 0.2226422	total: 55.6s	remaining: 1m 18s
208:	learn: 0.2225913	total: 55.9s	remaining: 1m 17s
209:	learn: 0.2225188	total: 56.2s	remaining: 1m 17s
210:	learn: 0.2224686	total: 56.4s	remaining: 1m 17s
211:	learn: 0.2223709	total: 56.7s	remaining: 1m 17s
212:	learn: 0.2223393	total: 57s	remaining: 1m 16s
213:	learn: 0.2221704	total: 57.3s	remaining: 1m 16s
214:	learn: 0.2221211	total: 57.5s	remaining: 1m 16s
215:	learn: 0.2220219	total: 57.8s	remaining: 1m 16s
216:	learn: 0.2219276	total: 58.1s	remaining: 1m 15s
217:	learn: 0.2217969	total: 58.4s	remaining: 1m 15s
218:	learn: 0.2217053	total: 58.7s	remaining: 1m 15s
219:	learn: 0.2215698	total: 59s	remaining: 1m 15s
220:	learn: 0.2214552	total: 59.3s	remaining: 1m 14s
221:	learn: 0.2213622	total: 59.6s	remaining: 1m 14s
222:	learn: 0.2212921	total: 59.8s	remaining: 1m 14s
223:	learn: 0.2211962	total: 1m	remaining: 1m 14s
224:	learn: 0.2211021	total: 1m	remaining: 1m 13s
225:	learn: 0.2210416	total: 1m	remaining: 1m 13s
226:	learn: 0.2208831	total: 1m	remaining: 1m 13s
227:	learn: 0.2207386	total: 1m 1s	remaining: 1m 13s
228:	learn: 0.2206678	total: 1m 1s	remaining: 1m 12s
229:	learn: 0.2205365	total: 1m 1s	remaining: 1m 12s
230:	learn: 0.2204231	total: 1m 2s	remaining: 1m 12s
231:	learn: 0.2203498	total: 1m 2s	remaining: 1m 12s
232:	learn: 0.2203258	total: 1m 2s	remaining: 1m 11s
233:	learn: 0.2202787	total: 1m 2s	remaining: 1m 11s
234:	learn: 0.2201401	total: 1m 3s	remaining: 1m 11s
235:	learn: 0.2200469	total: 1m 3s	remaining: 1m 11s
236:	learn: 0.2199248	total: 1m 3s	remaining: 1m 10s
237:	learn: 0.2198679	total: 1m 4s	remaining: 1m 10s
238:	learn: 0.2197758	total: 1m 4s	remaining: 1m 10s
239:	learn: 0.2196892	total: 1m 4s	remaining: 1m 10s
240:	learn: 0.2196548	total: 1m 4s	remaining: 1m 9s
241:	learn: 0.2195904	total: 1m 5s	remaining: 1m 9s
242:	learn: 0.2195268	total: 1m 5s	remaining: 1m 9s
243:	learn: 0.2194980	total: 1m 5s	remaining: 1m 9s

244:	learn: 0.2194831	total: 1m 6s	remaining: 1m 8s
245:	learn: 0.2194408	total: 1m 6s	remaining: 1m 8s
246:	learn: 0.2192068	total: 1m 6s	remaining: 1m 8s
247:	learn: 0.2191492	total: 1m 6s	remaining: 1m 7s
248:	learn: 0.2190883	total: 1m 7s	remaining: 1m 7s
249:	learn: 0.2190457	total: 1m 7s	remaining: 1m 7s
250:	learn: 0.2189700	total: 1m 7s	remaining: 1m 7s
251:	learn: 0.2188616	total: 1m 7s	remaining: 1m 6s
252:	learn: 0.2187990	total: 1m 8s	remaining: 1m 6s
253:	learn: 0.2187219	total: 1m 8s	remaining: 1m 6s
254:	learn: 0.2186960	total: 1m 8s	remaining: 1m 5s
255:	learn: 0.2185952	total: 1m 8s	remaining: 1m 5s
256:	learn: 0.2185412	total: 1m 9s	remaining: 1m 5s
257:	learn: 0.2185101	total: 1m 9s	remaining: 1m 5s
258:	learn: 0.2184267	total: 1m 9s	remaining: 1m 4s
259:	learn: 0.2183983	total: 1m 9s	remaining: 1m 4s
260:	learn: 0.2183198	total: 1m 10s	remaining: 1m 4s
261:	learn: 0.2182805	total: 1m 10s	remaining: 1m 3s
262:	learn: 0.2181931	total: 1m 10s	remaining: 1m 3s
263:	learn: 0.2181335	total: 1m 10s	remaining: 1m 3s
264:	learn: 0.2180601	total: 1m 11s	remaining: 1m 3s
265:	learn: 0.2179017	total: 1m 11s	remaining: 1m 2s
266:	learn: 0.2177263	total: 1m 11s	remaining: 1m 2s
267:	learn: 0.2176674	total: 1m 11s	remaining: 1m 2s
268:	learn: 0.2175916	total: 1m 12s	remaining: 1m 2s
269:	learn: 0.2175026	total: 1m 12s	remaining: 1m 1s
270:	learn: 0.2174551	total: 1m 12s	remaining: 1m 1s
271:	learn: 0.2173455	total: 1m 13s	remaining: 1m 1s
272:	learn: 0.2172899	total: 1m 13s	remaining: 1m
273:	learn: 0.2172158	total: 1m 13s	remaining: 1m
274:	learn: 0.2171485	total: 1m 13s	remaining: 1m
275:	learn: 0.2170251	total: 1m 14s	remaining: 1m
276:	learn: 0.2170058	total: 1m 14s	remaining: 59.9s
277:	learn: 0.2169690	total: 1m 14s	remaining: 59.7s
278:	learn: 0.2169437	total: 1m 15s	remaining: 59.4s
279:	learn: 0.2168787	total: 1m 15s	remaining: 59.2s
280:	learn: 0.2167428	total: 1m 15s	remaining: 58.9s
281:	learn: 0.2166662	total: 1m 15s	remaining: 58.6s
282:	learn: 0.2165913	total: 1m 16s	remaining: 58.4s
283:	learn: 0.2165046	total: 1m 16s	remaining: 58.1s
284:	learn: 0.2164005	total: 1m 16s	remaining: 57.9s
285:	learn: 0.2163611	total: 1m 16s	remaining: 57.6s
286:	learn: 0.2163036	total: 1m 17s	remaining: 57.3s
287:	learn: 0.2162618	total: 1m 17s	remaining: 57s
288:	learn: 0.2161954	total: 1m 17s	remaining: 56.7s
289:	learn: 0.2160840	total: 1m 17s	remaining: 56.5s
290:	learn: 0.2159322	total: 1m 18s	remaining: 56.2s
291:	learn: 0.2159136	total: 1m 18s	remaining: 55.9s

292:	learn: 0.2158194	total: 1m 18s	remaining: 55.7s
293:	learn: 0.2157888	total: 1m 19s	remaining: 55.4s
294:	learn: 0.2157314	total: 1m 19s	remaining: 55.1s
295:	learn: 0.2157039	total: 1m 19s	remaining: 54.9s
296:	learn: 0.2156145	total: 1m 19s	remaining: 54.6s
297:	learn: 0.2155006	total: 1m 20s	remaining: 54.3s
298:	learn: 0.2154384	total: 1m 20s	remaining: 54.1s
299:	learn: 0.2153858	total: 1m 20s	remaining: 53.8s
300:	learn: 0.2153262	total: 1m 20s	remaining: 53.5s
301:	learn: 0.2152731	total: 1m 21s	remaining: 53.3s
302:	learn: 0.2151802	total: 1m 21s	remaining: 53s
303:	learn: 0.2151237	total: 1m 21s	remaining: 52.7s
304:	learn: 0.2150905	total: 1m 22s	remaining: 52.5s
305:	learn: 0.2150274	total: 1m 22s	remaining: 52.2s
306:	learn: 0.2149450	total: 1m 22s	remaining: 51.9s
307:	learn: 0.2149064	total: 1m 22s	remaining: 51.6s
308:	learn: 0.2147767	total: 1m 23s	remaining: 51.3s
309:	learn: 0.2146791	total: 1m 23s	remaining: 51s
310:	learn: 0.2146570	total: 1m 23s	remaining: 50.7s
311:	learn: 0.2146254	total: 1m 23s	remaining: 50.5s
312:	learn: 0.2145855	total: 1m 24s	remaining: 50.2s
313:	learn: 0.2145183	total: 1m 24s	remaining: 49.9s
314:	learn: 0.2140396	total: 1m 24s	remaining: 49.7s
315:	learn: 0.2140023	total: 1m 24s	remaining: 49.4s
316:	learn: 0.2139533	total: 1m 25s	remaining: 49.1s
317:	learn: 0.2139090	total: 1m 25s	remaining: 48.8s
318:	learn: 0.2138620	total: 1m 25s	remaining: 48.5s
319:	learn: 0.2137304	total: 1m 25s	remaining: 48.3s
320:	learn: 0.2136693	total: 1m 26s	remaining: 48s
321:	learn: 0.2135982	total: 1m 26s	remaining: 47.7s
322:	learn: 0.2134866	total: 1m 26s	remaining: 47.5s
323:	learn: 0.2134522	total: 1m 26s	remaining: 47.2s
324:	learn: 0.2134156	total: 1m 27s	remaining: 46.9s
325:	learn: 0.2133139	total: 1m 27s	remaining: 46.7s
326:	learn: 0.2132652	total: 1m 27s	remaining: 46.4s
327:	learn: 0.2131454	total: 1m 27s	remaining: 46.1s
328:	learn: 0.2130697	total: 1m 28s	remaining: 45.9s
329:	learn: 0.2130469	total: 1m 28s	remaining: 45.6s
330:	learn: 0.2130007	total: 1m 28s	remaining: 45.4s
331:	learn: 0.2129569	total: 1m 29s	remaining: 45.1s
332:	learn: 0.2128602	total: 1m 29s	remaining: 44.8s
333:	learn: 0.2127897	total: 1m 29s	remaining: 44.6s
334:	learn: 0.2127610	total: 1m 29s	remaining: 44.3s
335:	learn: 0.2127486	total: 1m 30s	remaining: 44s
336:	learn: 0.2125665	total: 1m 30s	remaining: 43.8s
337:	learn: 0.2125442	total: 1m 30s	remaining: 43.5s
338:	learn: 0.2125196	total: 1m 31s	remaining: 43.2s
339:	learn: 0.2124820	total: 1m 31s	remaining: 43s

340:	learn: 0.2124196	total: 1m 31s	remaining: 42.7s
341:	learn: 0.2123965	total: 1m 31s	remaining: 42.4s
342:	learn: 0.2123763	total: 1m 32s	remaining: 42.1s
343:	learn: 0.2122378	total: 1m 32s	remaining: 41.9s
344:	learn: 0.2122020	total: 1m 32s	remaining: 41.6s
345:	learn: 0.2121272	total: 1m 32s	remaining: 41.4s
346:	learn: 0.2121025	total: 1m 33s	remaining: 41.1s
347:	learn: 0.2120337	total: 1m 33s	remaining: 40.9s
348:	learn: 0.2119779	total: 1m 33s	remaining: 40.6s
349:	learn: 0.2119247	total: 1m 34s	remaining: 40.3s
350:	learn: 0.2118830	total: 1m 34s	remaining: 40.1s
351:	learn: 0.2118218	total: 1m 34s	remaining: 39.8s
352:	learn: 0.2117653	total: 1m 34s	remaining: 39.5s
353:	learn: 0.2116825	total: 1m 35s	remaining: 39.3s
354:	learn: 0.2116428	total: 1m 35s	remaining: 39s
355:	learn: 0.2115366	total: 1m 35s	remaining: 38.7s
356:	learn: 0.2114904	total: 1m 36s	remaining: 38.5s
357:	learn: 0.2114163	total: 1m 36s	remaining: 38.2s
358:	learn: 0.2113676	total: 1m 36s	remaining: 37.9s
359:	learn: 0.2113442	total: 1m 36s	remaining: 37.7s
360:	learn: 0.2112008	total: 1m 37s	remaining: 37.4s
361:	learn: 0.2111583	total: 1m 37s	remaining: 37.1s
362:	learn: 0.2111176	total: 1m 37s	remaining: 36.9s
363:	learn: 0.2110474	total: 1m 38s	remaining: 36.6s
364:	learn: 0.2110085	total: 1m 38s	remaining: 36.4s
365:	learn: 0.2109666	total: 1m 38s	remaining: 36.1s
366:	learn: 0.2109151	total: 1m 38s	remaining: 35.8s
367:	learn: 0.2108297	total: 1m 39s	remaining: 35.5s
368:	learn: 0.2107730	total: 1m 39s	remaining: 35.3s
369:	learn: 0.2107425	total: 1m 39s	remaining: 35s
370:	learn: 0.2107154	total: 1m 39s	remaining: 34.7s
371:	learn: 0.2106531	total: 1m 40s	remaining: 34.4s
372:	learn: 0.2105392	total: 1m 40s	remaining: 34.2s
373:	learn: 0.2104798	total: 1m 40s	remaining: 33.9s
374:	learn: 0.2104276	total: 1m 40s	remaining: 33.6s
375:	learn: 0.2103599	total: 1m 41s	remaining: 33.4s
376:	learn: 0.2102629	total: 1m 41s	remaining: 33.1s
377:	learn: 0.2101656	total: 1m 41s	remaining: 32.8s
378:	learn: 0.2101055	total: 1m 41s	remaining: 32.5s
379:	learn: 0.2100267	total: 1m 42s	remaining: 32.3s
380:	learn: 0.2100125	total: 1m 42s	remaining: 32s
381:	learn: 0.2099667	total: 1m 42s	remaining: 31.7s
382:	learn: 0.2098864	total: 1m 43s	remaining: 31.5s
383:	learn: 0.2098345	total: 1m 43s	remaining: 31.2s
384:	learn: 0.2097784	total: 1m 43s	remaining: 30.9s
385:	learn: 0.2096958	total: 1m 43s	remaining: 30.7s
386:	learn: 0.2096583	total: 1m 44s	remaining: 30.4s
387:	learn: 0.2095960	total: 1m 44s	remaining: 30.1s

388:	learn: 0.2095242	total: 1m 44s	remaining: 29.8s
389:	learn: 0.2094889	total: 1m 44s	remaining: 29.5s
390:	learn: 0.2094423	total: 1m 44s	remaining: 29.2s
391:	learn: 0.2093529	total: 1m 45s	remaining: 28.9s
392:	learn: 0.2092801	total: 1m 45s	remaining: 28.6s
393:	learn: 0.2091711	total: 1m 45s	remaining: 28.4s
394:	learn: 0.2090517	total: 1m 45s	remaining: 28.1s
395:	learn: 0.2089891	total: 1m 45s	remaining: 27.8s
396:	learn: 0.2089475	total: 1m 45s	remaining: 27.5s
397:	learn: 0.2088886	total: 1m 46s	remaining: 27.2s
398:	learn: 0.2088108	total: 1m 46s	remaining: 27s
399:	learn: 0.2087416	total: 1m 46s	remaining: 26.7s
400:	learn: 0.2087133	total: 1m 47s	remaining: 26.4s
401:	learn: 0.2086928	total: 1m 47s	remaining: 26.2s
402:	learn: 0.2086273	total: 1m 47s	remaining: 25.9s
403:	learn: 0.2084930	total: 1m 47s	remaining: 25.6s
404:	learn: 0.2084397	total: 1m 48s	remaining: 25.4s
405:	learn: 0.2084261	total: 1m 48s	remaining: 25.1s
406:	learn: 0.2084083	total: 1m 48s	remaining: 24.8s
407:	learn: 0.2083566	total: 1m 49s	remaining: 24.6s
408:	learn: 0.2083181	total: 1m 49s	remaining: 24.3s
409:	learn: 0.2082079	total: 1m 49s	remaining: 24.1s
410:	learn: 0.2080703	total: 1m 49s	remaining: 23.8s
411:	learn: 0.2080533	total: 1m 50s	remaining: 23.5s
412:	learn: 0.2080308	total: 1m 50s	remaining: 23.3s
413:	learn: 0.2080162	total: 1m 50s	remaining: 23s
414:	learn: 0.2079018	total: 1m 51s	remaining: 22.7s
415:	learn: 0.2078310	total: 1m 51s	remaining: 22.5s
416:	learn: 0.2077840	total: 1m 51s	remaining: 22.2s
417:	learn: 0.2076926	total: 1m 52s	remaining: 22s
418:	learn: 0.2076828	total: 1m 52s	remaining: 21.7s
419:	learn: 0.2076383	total: 1m 52s	remaining: 21.4s
420:	learn: 0.2075742	total: 1m 52s	remaining: 21.2s
421:	learn: 0.2075103	total: 1m 53s	remaining: 20.9s
422:	learn: 0.2072002	total: 1m 53s	remaining: 20.6s
423:	learn: 0.2071631	total: 1m 53s	remaining: 20.4s
424:	learn: 0.2071305	total: 1m 53s	remaining: 20.1s
425:	learn: 0.2070301	total: 1m 54s	remaining: 19.8s
426:	learn: 0.2069493	total: 1m 54s	remaining: 19.6s
427:	learn: 0.2069032	total: 1m 54s	remaining: 19.3s
428:	learn: 0.2068334	total: 1m 54s	remaining: 19s
429:	learn: 0.2067515	total: 1m 55s	remaining: 18.8s
430:	learn: 0.2067189	total: 1m 55s	remaining: 18.5s
431:	learn: 0.2066789	total: 1m 55s	remaining: 18.2s
432:	learn: 0.2066401	total: 1m 55s	remaining: 17.9s
433:	learn: 0.2066225	total: 1m 56s	remaining: 17.7s
434:	learn: 0.2065951	total: 1m 56s	remaining: 17.4s
435:	learn: 0.2065247	total: 1m 56s	remaining: 17.1s

436:	learn: 0.2064439	total: 1m 56s	remaining: 16.9s
437:	learn: 0.2063823	total: 1m 57s	remaining: 16.6s
438:	learn: 0.2062650	total: 1m 57s	remaining: 16.3s
439:	learn: 0.2062180	total: 1m 57s	remaining: 16.1s
440:	learn: 0.2061580	total: 1m 57s	remaining: 15.8s
441:	learn: 0.2061336	total: 1m 58s	remaining: 15.5s
442:	learn: 0.2060804	total: 1m 58s	remaining: 15.2s
443:	learn: 0.2060300	total: 1m 58s	remaining: 15s
444:	learn: 0.2060028	total: 1m 59s	remaining: 14.7s
445:	learn: 0.2059849	total: 1m 59s	remaining: 14.4s
446:	learn: 0.2059340	total: 1m 59s	remaining: 14.2s
447:	learn: 0.2059069	total: 1m 59s	remaining: 13.9s
448:	learn: 0.2058497	total: 2m	remaining: 13.6s
449:	learn: 0.2058245	total: 2m	remaining: 13.4s
450:	learn: 0.2058028	total: 2m	remaining: 13.1s
451:	learn: 0.2057824	total: 2m	remaining: 12.8s
452:	learn: 0.2056631	total: 2m 1s	remaining: 12.6s
453:	learn: 0.2055696	total: 2m 1s	remaining: 12.3s
454:	learn: 0.2055294	total: 2m 1s	remaining: 12s
455:	learn: 0.2053908	total: 2m 2s	remaining: 11.8s
456:	learn: 0.2052878	total: 2m 2s	remaining: 11.5s
457:	learn: 0.2052451	total: 2m 2s	remaining: 11.2s
458:	learn: 0.2051723	total: 2m 2s	remaining: 11s
459:	learn: 0.2051198	total: 2m 3s	remaining: 10.7s
460:	learn: 0.2050854	total: 2m 3s	remaining: 10.4s
461:	learn: 0.2049813	total: 2m 3s	remaining: 10.2s
462:	learn: 0.2049172	total: 2m 3s	remaining: 9.91s
463:	learn: 0.2048778	total: 2m 4s	remaining: 9.64s
464:	learn: 0.2047860	total: 2m 4s	remaining: 9.37s
465:	learn: 0.2047271	total: 2m 4s	remaining: 9.1s
466:	learn: 0.2046059	total: 2m 4s	remaining: 8.83s
467:	learn: 0.2045696	total: 2m 5s	remaining: 8.57s
468:	learn: 0.2045124	total: 2m 5s	remaining: 8.3s
469:	learn: 0.2044711	total: 2m 5s	remaining: 8.03s
470:	learn: 0.2044399	total: 2m 6s	remaining: 7.77s
471:	learn: 0.2043656	total: 2m 6s	remaining: 7.5s
472:	learn: 0.2043418	total: 2m 6s	remaining: 7.23s
473:	learn: 0.2042999	total: 2m 6s	remaining: 6.96s
474:	learn: 0.2042251	total: 2m 7s	remaining: 6.7s
475:	learn: 0.2041580	total: 2m 7s	remaining: 6.43s
476:	learn: 0.2040919	total: 2m 7s	remaining: 6.16s
477:	learn: 0.2040329	total: 2m 8s	remaining: 5.9s
478:	learn: 0.2039924	total: 2m 8s	remaining: 5.63s
479:	learn: 0.2039577	total: 2m 8s	remaining: 5.36s
480:	learn: 0.2038899	total: 2m 8s	remaining: 5.09s
481:	learn: 0.2038555	total: 2m 9s	remaining: 4.83s
482:	learn: 0.2037305	total: 2m 9s	remaining: 4.56s
483:	learn: 0.2036753	total: 2m 9s	remaining: 4.29s

484:	learn: 0.2036553	total: 2m 10s	remaining: 4.02s
485:	learn: 0.2036269	total: 2m 10s	remaining: 3.75s
486:	learn: 0.2036136	total: 2m 10s	remaining: 3.48s
487:	learn: 0.2035923	total: 2m 10s	remaining: 3.21s
488:	learn: 0.2035719	total: 2m 10s	remaining: 2.95s
489:	learn: 0.2035250	total: 2m 11s	remaining: 2.68s
490:	learn: 0.2034898	total: 2m 11s	remaining: 2.41s
491:	learn: 0.2034854	total: 2m 11s	remaining: 2.14s
492:	learn: 0.2034494	total: 2m 12s	remaining: 1.88s
493:	learn: 0.2033971	total: 2m 12s	remaining: 1.61s
494:	learn: 0.2033439	total: 2m 12s	remaining: 1.34s
495:	learn: 0.2032089	total: 2m 12s	remaining: 1.07s
496:	learn: 0.2031770	total: 2m 13s	remaining: 804ms
497:	learn: 0.2031493	total: 2m 13s	remaining: 536ms
498:	learn: 0.2030966	total: 2m 13s	remaining: 268ms
499:	learn: 0.2030453	total: 2m 14s	remaining: 0us

Learning rate set to 0.174288

0:	learn: 0.9751622	total: 288ms	remaining: 2m 23s
1:	learn: 0.8942363	total: 507ms	remaining: 2m 6s
2:	learn: 0.8356837	total: 709ms	remaining: 1m 57s
3:	learn: 0.7439014	total: 922ms	remaining: 1m 54s
4:	learn: 0.7095395	total: 1.11s	remaining: 1m 50s
5:	learn: 0.6789742	total: 1.32s	remaining: 1m 49s
6:	learn: 0.6563228	total: 1.53s	remaining: 1m 47s
7:	learn: 0.5813198	total: 1.77s	remaining: 1m 49s
8:	learn: 0.5266161	total: 2s	remaining: 1m 49s
9:	learn: 0.4805696	total: 2.21s	remaining: 1m 48s
10:	learn: 0.4458561	total: 2.42s	remaining: 1m 47s
11:	learn: 0.4186516	total: 2.65s	remaining: 1m 47s
12:	learn: 0.3958008	total: 2.86s	remaining: 1m 47s
13:	learn: 0.3768266	total: 3.11s	remaining: 1m 47s
14:	learn: 0.3625418	total: 3.4s	remaining: 1m 50s
15:	learn: 0.3505132	total: 3.7s	remaining: 1m 51s
16:	learn: 0.3360099	total: 4.01s	remaining: 1m 53s
17:	learn: 0.3330810	total: 4.29s	remaining: 1m 54s
18:	learn: 0.3250726	total: 4.58s	remaining: 1m 55s
19:	learn: 0.3231130	total: 4.84s	remaining: 1m 56s
20:	learn: 0.3100114	total: 5.15s	remaining: 1m 57s
21:	learn: 0.2998377	total: 5.49s	remaining: 1m 59s
22:	learn: 0.2909999	total: 5.78s	remaining: 1m 59s
23:	learn: 0.2831947	total: 6.09s	remaining: 2m
24:	learn: 0.2768520	total: 6.38s	remaining: 2m 1s
25:	learn: 0.2717087	total: 6.66s	remaining: 2m 1s
26:	learn: 0.2690120	total: 6.92s	remaining: 2m 1s
27:	learn: 0.2679574	total: 7.2s	remaining: 2m 1s
28:	learn: 0.2671203	total: 7.49s	remaining: 2m 1s
29:	learn: 0.2663182	total: 7.79s	remaining: 2m 2s
30:	learn: 0.2656014	total: 8.09s	remaining: 2m 2s

31:	learn: 0.2622339	total: 8.39s	remaining: 2m 2s
32:	learn: 0.2612488	total: 8.7s	remaining: 2m 3s
33:	learn: 0.2584113	total: 9s	remaining: 2m 3s
34:	learn: 0.2576587	total: 9.29s	remaining: 2m 3s
35:	learn: 0.2574004	total: 9.58s	remaining: 2m 3s
36:	learn: 0.2564335	total: 9.89s	remaining: 2m 3s
37:	learn: 0.2543240	total: 10.2s	remaining: 2m 3s
38:	learn: 0.2539934	total: 10.5s	remaining: 2m 3s
39:	learn: 0.2534839	total: 10.7s	remaining: 2m 3s
40:	learn: 0.2531082	total: 11s	remaining: 2m 3s
41:	learn: 0.2528287	total: 11.3s	remaining: 2m 2s
42:	learn: 0.2524559	total: 11.6s	remaining: 2m 3s
43:	learn: 0.2522557	total: 11.9s	remaining: 2m 3s
44:	learn: 0.2519169	total: 12.1s	remaining: 2m 2s
45:	learn: 0.2516822	total: 12.4s	remaining: 2m 2s
46:	learn: 0.2505822	total: 12.7s	remaining: 2m 1s
47:	learn: 0.2501772	total: 12.9s	remaining: 2m 1s
48:	learn: 0.2498922	total: 13.2s	remaining: 2m 1s
49:	learn: 0.2490933	total: 13.5s	remaining: 2m 1s
50:	learn: 0.2489149	total: 13.7s	remaining: 2m
51:	learn: 0.2484867	total: 14s	remaining: 2m
52:	learn: 0.2483305	total: 14.2s	remaining: 1m 59s
53:	learn: 0.2480200	total: 14.5s	remaining: 1m 59s
54:	learn: 0.2471273	total: 14.7s	remaining: 1m 59s
55:	learn: 0.2469078	total: 15s	remaining: 1m 59s
56:	learn: 0.2467556	total: 15.3s	remaining: 1m 58s
57:	learn: 0.2466744	total: 15.6s	remaining: 1m 58s
58:	learn: 0.2466240	total: 15.8s	remaining: 1m 58s
59:	learn: 0.2464147	total: 16.1s	remaining: 1m 58s
60:	learn: 0.2460213	total: 16.4s	remaining: 1m 57s
61:	learn: 0.2458947	total: 16.7s	remaining: 1m 57s
62:	learn: 0.2451393	total: 17s	remaining: 1m 57s
63:	learn: 0.2448796	total: 17.3s	remaining: 1m 57s
64:	learn: 0.2436076	total: 17.6s	remaining: 1m 57s
65:	learn: 0.2434188	total: 17.9s	remaining: 1m 57s
66:	learn: 0.2428237	total: 18.2s	remaining: 1m 57s
67:	learn: 0.2424722	total: 18.5s	remaining: 1m 57s
68:	learn: 0.2421332	total: 18.8s	remaining: 1m 57s
69:	learn: 0.2419826	total: 19.1s	remaining: 1m 57s
70:	learn: 0.2416547	total: 19.4s	remaining: 1m 57s
71:	learn: 0.2412112	total: 19.7s	remaining: 1m 57s
72:	learn: 0.2409871	total: 20s	remaining: 1m 56s
73:	learn: 0.2400569	total: 20.2s	remaining: 1m 56s
74:	learn: 0.2382783	total: 20.6s	remaining: 1m 56s
75:	learn: 0.2375756	total: 20.9s	remaining: 1m 56s
76:	learn: 0.2374410	total: 21.1s	remaining: 1m 55s
77:	learn: 0.2369304	total: 21.4s	remaining: 1m 55s
78:	learn: 0.2368150	total: 21.6s	remaining: 1m 55s

79:	learn: 0.2366822	total: 21.9s	remaining: 1m 55s
80:	learn: 0.2365805	total: 22.2s	remaining: 1m 54s
81:	learn: 0.2365027	total: 22.5s	remaining: 1m 54s
82:	learn: 0.2363802	total: 22.8s	remaining: 1m 54s
83:	learn: 0.2362987	total: 23.1s	remaining: 1m 54s
84:	learn: 0.2361885	total: 23.3s	remaining: 1m 53s
85:	learn: 0.2359017	total: 23.6s	remaining: 1m 53s
86:	learn: 0.2358247	total: 23.9s	remaining: 1m 53s
87:	learn: 0.2354944	total: 24.2s	remaining: 1m 53s
88:	learn: 0.2353745	total: 24.5s	remaining: 1m 52s
89:	learn: 0.2352266	total: 24.7s	remaining: 1m 52s
90:	learn: 0.2349518	total: 25s	remaining: 1m 52s
91:	learn: 0.2348477	total: 25.3s	remaining: 1m 52s
92:	learn: 0.2345244	total: 25.6s	remaining: 1m 52s
93:	learn: 0.2337081	total: 25.8s	remaining: 1m 51s
94:	learn: 0.2336800	total: 26.1s	remaining: 1m 51s
95:	learn: 0.2334366	total: 26.4s	remaining: 1m 51s
96:	learn: 0.2332766	total: 26.7s	remaining: 1m 50s
97:	learn: 0.2331483	total: 27s	remaining: 1m 50s
98:	learn: 0.2329988	total: 27.3s	remaining: 1m 50s
99:	learn: 0.2328964	total: 27.5s	remaining: 1m 50s
100:	learn: 0.2327324	total: 27.8s	remaining: 1m 49s
101:	learn: 0.2326673	total: 28.1s	remaining: 1m 49s
102:	learn: 0.2325341	total: 28.3s	remaining: 1m 49s
103:	learn: 0.2323790	total: 28.6s	remaining: 1m 48s
104:	learn: 0.2322438	total: 28.8s	remaining: 1m 48s
105:	learn: 0.2320797	total: 29.1s	remaining: 1m 48s
106:	learn: 0.2319142	total: 29.3s	remaining: 1m 47s
107:	learn: 0.2318498	total: 29.6s	remaining: 1m 47s
108:	learn: 0.2317661	total: 29.9s	remaining: 1m 47s
109:	learn: 0.2317163	total: 30.1s	remaining: 1m 46s
110:	learn: 0.2316955	total: 30.3s	remaining: 1m 46s
111:	learn: 0.2316316	total: 30.6s	remaining: 1m 46s
112:	learn: 0.2315849	total: 30.8s	remaining: 1m 45s
113:	learn: 0.2314144	total: 31.1s	remaining: 1m 45s
114:	learn: 0.2312661	total: 31.4s	remaining: 1m 44s
115:	learn: 0.2309852	total: 31.6s	remaining: 1m 44s
116:	learn: 0.2309074	total: 31.9s	remaining: 1m 44s
117:	learn: 0.2308151	total: 32.1s	remaining: 1m 44s
118:	learn: 0.2306854	total: 32.4s	remaining: 1m 43s
119:	learn: 0.2306182	total: 32.6s	remaining: 1m 43s
120:	learn: 0.2305521	total: 32.8s	remaining: 1m 42s
121:	learn: 0.2302995	total: 33s	remaining: 1m 42s
122:	learn: 0.2302582	total: 33.2s	remaining: 1m 41s
123:	learn: 0.2300968	total: 33.4s	remaining: 1m 41s
124:	learn: 0.2299332	total: 33.6s	remaining: 1m 40s
125:	learn: 0.2297829	total: 33.8s	remaining: 1m 40s
126:	learn: 0.2290849	total: 34s	remaining: 1m 40s

127:	learn: 0.2287377	total: 34.3s	remaining: 1m 39s
128:	learn: 0.2286038	total: 34.5s	remaining: 1m 39s
129:	learn: 0.2285382	total: 34.7s	remaining: 1m 38s
130:	learn: 0.2284001	total: 35s	remaining: 1m 38s
131:	learn: 0.2280769	total: 35.3s	remaining: 1m 38s
132:	learn: 0.2279430	total: 35.6s	remaining: 1m 38s
133:	learn: 0.2278337	total: 35.8s	remaining: 1m 37s
134:	learn: 0.2277337	total: 36.1s	remaining: 1m 37s
135:	learn: 0.2275713	total: 36.4s	remaining: 1m 37s
136:	learn: 0.2275154	total: 36.7s	remaining: 1m 37s
137:	learn: 0.2273010	total: 37s	remaining: 1m 37s
138:	learn: 0.2272277	total: 37.3s	remaining: 1m 36s
139:	learn: 0.2272234	total: 37.6s	remaining: 1m 36s
140:	learn: 0.2271109	total: 37.9s	remaining: 1m 36s
141:	learn: 0.2270169	total: 38.1s	remaining: 1m 36s
142:	learn: 0.2269766	total: 38.4s	remaining: 1m 35s
143:	learn: 0.2269311	total: 38.7s	remaining: 1m 35s
144:	learn: 0.2268201	total: 38.9s	remaining: 1m 35s
145:	learn: 0.2265574	total: 39.2s	remaining: 1m 35s
146:	learn: 0.2264838	total: 39.5s	remaining: 1m 34s
147:	learn: 0.2263757	total: 39.8s	remaining: 1m 34s
148:	learn: 0.2262561	total: 40.1s	remaining: 1m 34s
149:	learn: 0.2262004	total: 40.4s	remaining: 1m 34s
150:	learn: 0.2261171	total: 40.6s	remaining: 1m 33s
151:	learn: 0.2260668	total: 41s	remaining: 1m 33s
152:	learn: 0.2259461	total: 41.3s	remaining: 1m 33s
153:	learn: 0.2258163	total: 41.5s	remaining: 1m 33s
154:	learn: 0.2257736	total: 41.8s	remaining: 1m 33s
155:	learn: 0.2256485	total: 42s	remaining: 1m 32s
156:	learn: 0.2253219	total: 42.3s	remaining: 1m 32s
157:	learn: 0.2252423	total: 42.6s	remaining: 1m 32s
158:	learn: 0.2251339	total: 42.9s	remaining: 1m 31s
159:	learn: 0.2250720	total: 43.1s	remaining: 1m 31s
160:	learn: 0.2250392	total: 43.4s	remaining: 1m 31s
161:	learn: 0.2249712	total: 43.6s	remaining: 1m 30s
162:	learn: 0.2249395	total: 43.8s	remaining: 1m 30s
163:	learn: 0.2248646	total: 44.1s	remaining: 1m 30s
164:	learn: 0.2248021	total: 44.3s	remaining: 1m 30s
165:	learn: 0.2247510	total: 44.6s	remaining: 1m 29s
166:	learn: 0.2246873	total: 44.8s	remaining: 1m 29s
167:	learn: 0.2246460	total: 45.1s	remaining: 1m 29s
168:	learn: 0.2244302	total: 45.3s	remaining: 1m 28s
169:	learn: 0.2243542	total: 45.6s	remaining: 1m 28s
170:	learn: 0.2242403	total: 45.9s	remaining: 1m 28s
171:	learn: 0.2239208	total: 46.2s	remaining: 1m 28s
172:	learn: 0.2238780	total: 46.4s	remaining: 1m 27s
173:	learn: 0.2237590	total: 46.6s	remaining: 1m 27s
174:	learn: 0.2236123	total: 46.9s	remaining: 1m 27s

175:	learn: 0.2234875	total: 47.1s	remaining: 1m 26s
176:	learn: 0.2234406	total: 47.4s	remaining: 1m 26s
177:	learn: 0.2234120	total: 47.7s	remaining: 1m 26s
178:	learn: 0.2233404	total: 47.9s	remaining: 1m 25s
179:	learn: 0.2232725	total: 48.2s	remaining: 1m 25s
180:	learn: 0.2232211	total: 48.4s	remaining: 1m 25s
181:	learn: 0.2231723	total: 48.7s	remaining: 1m 25s
182:	learn: 0.2230752	total: 49s	remaining: 1m 24s
183:	learn: 0.2229718	total: 49.2s	remaining: 1m 24s
184:	learn: 0.2228979	total: 49.6s	remaining: 1m 24s
185:	learn: 0.2228470	total: 49.8s	remaining: 1m 24s
186:	learn: 0.2228420	total: 50.1s	remaining: 1m 23s
187:	learn: 0.2227966	total: 50.4s	remaining: 1m 23s
188:	learn: 0.2226403	total: 50.7s	remaining: 1m 23s
189:	learn: 0.2225626	total: 51s	remaining: 1m 23s
190:	learn: 0.2224873	total: 51.3s	remaining: 1m 22s
191:	learn: 0.2224384	total: 51.6s	remaining: 1m 22s
192:	learn: 0.2223849	total: 51.8s	remaining: 1m 22s
193:	learn: 0.2223236	total: 52.1s	remaining: 1m 22s
194:	learn: 0.2221705	total: 52.4s	remaining: 1m 21s
195:	learn: 0.2221323	total: 52.7s	remaining: 1m 21s
196:	learn: 0.2221185	total: 53s	remaining: 1m 21s
197:	learn: 0.2220910	total: 53.2s	remaining: 1m 21s
198:	learn: 0.2219912	total: 53.5s	remaining: 1m 20s
199:	learn: 0.2218536	total: 53.8s	remaining: 1m 20s
200:	learn: 0.2217534	total: 54.1s	remaining: 1m 20s
201:	learn: 0.2217134	total: 54.3s	remaining: 1m 20s
202:	learn: 0.2216585	total: 54.6s	remaining: 1m 19s
203:	learn: 0.2216112	total: 54.8s	remaining: 1m 19s
204:	learn: 0.2215430	total: 55.2s	remaining: 1m 19s
205:	learn: 0.2214167	total: 55.4s	remaining: 1m 19s
206:	learn: 0.2212951	total: 55.7s	remaining: 1m 18s
207:	learn: 0.2212526	total: 56s	remaining: 1m 18s
208:	learn: 0.2211799	total: 56.3s	remaining: 1m 18s
209:	learn: 0.2211425	total: 56.6s	remaining: 1m 18s
210:	learn: 0.2210942	total: 56.9s	remaining: 1m 17s
211:	learn: 0.2209085	total: 57.2s	remaining: 1m 17s
212:	learn: 0.2208381	total: 57.5s	remaining: 1m 17s
213:	learn: 0.2207590	total: 57.7s	remaining: 1m 17s
214:	learn: 0.2207319	total: 58s	remaining: 1m 16s
215:	learn: 0.2206605	total: 58.3s	remaining: 1m 16s
216:	learn: 0.2205277	total: 58.6s	remaining: 1m 16s
217:	learn: 0.2205021	total: 58.8s	remaining: 1m 16s
218:	learn: 0.2203535	total: 59.1s	remaining: 1m 15s
219:	learn: 0.2202546	total: 59.4s	remaining: 1m 15s
220:	learn: 0.2202056	total: 59.7s	remaining: 1m 15s
221:	learn: 0.2201209	total: 59.9s	remaining: 1m 15s
222:	learn: 0.2200565	total: 1m	remaining: 1m 14s

223:	learn: 0.2200348	total: 1m	remaining: 1m 14s
224:	learn: 0.2200015	total: 1m	remaining: 1m 14s
225:	learn: 0.2199632	total: 1m	remaining: 1m 13s
226:	learn: 0.2198767	total: 1m 1s	remaining: 1m 13s
227:	learn: 0.2198191	total: 1m 1s	remaining: 1m 13s
228:	learn: 0.2197817	total: 1m 1s	remaining: 1m 12s
229:	learn: 0.2196829	total: 1m 1s	remaining: 1m 12s
230:	learn: 0.2196553	total: 1m 2s	remaining: 1m 12s
231:	learn: 0.2195858	total: 1m 2s	remaining: 1m 12s
232:	learn: 0.2195316	total: 1m 2s	remaining: 1m 11s
233:	learn: 0.2194260	total: 1m 2s	remaining: 1m 11s
234:	learn: 0.2193149	total: 1m 3s	remaining: 1m 11s
235:	learn: 0.2191865	total: 1m 3s	remaining: 1m 10s
236:	learn: 0.2190993	total: 1m 3s	remaining: 1m 10s
237:	learn: 0.2190590	total: 1m 3s	remaining: 1m 10s
238:	learn: 0.2188971	total: 1m 4s	remaining: 1m 10s
239:	learn: 0.2188136	total: 1m 4s	remaining: 1m 9s
240:	learn: 0.2186934	total: 1m 4s	remaining: 1m 9s
241:	learn: 0.2186243	total: 1m 5s	remaining: 1m 9s
242:	learn: 0.2185031	total: 1m 5s	remaining: 1m 9s
243:	learn: 0.2184172	total: 1m 5s	remaining: 1m 8s
244:	learn: 0.2183795	total: 1m 5s	remaining: 1m 8s
245:	learn: 0.2183301	total: 1m 6s	remaining: 1m 8s
246:	learn: 0.2182812	total: 1m 6s	remaining: 1m 8s
247:	learn: 0.2182076	total: 1m 6s	remaining: 1m 7s
248:	learn: 0.2181335	total: 1m 7s	remaining: 1m 7s
249:	learn: 0.2180823	total: 1m 7s	remaining: 1m 7s
250:	learn: 0.2180437	total: 1m 7s	remaining: 1m 7s
251:	learn: 0.2179971	total: 1m 7s	remaining: 1m 6s
252:	learn: 0.2179532	total: 1m 8s	remaining: 1m 6s
253:	learn: 0.2179385	total: 1m 8s	remaining: 1m 6s
254:	learn: 0.2178985	total: 1m 8s	remaining: 1m 5s
255:	learn: 0.2178252	total: 1m 8s	remaining: 1m 5s
256:	learn: 0.2177893	total: 1m 9s	remaining: 1m 5s
257:	learn: 0.2177425	total: 1m 9s	remaining: 1m 5s
258:	learn: 0.2176923	total: 1m 9s	remaining: 1m 4s
259:	learn: 0.2176418	total: 1m 9s	remaining: 1m 4s
260:	learn: 0.2175889	total: 1m 10s	remaining: 1m 4s
261:	learn: 0.2175311	total: 1m 10s	remaining: 1m 4s
262:	learn: 0.2174400	total: 1m 10s	remaining: 1m 3s
263:	learn: 0.2173673	total: 1m 11s	remaining: 1m 3s
264:	learn: 0.2173080	total: 1m 11s	remaining: 1m 3s
265:	learn: 0.2172787	total: 1m 11s	remaining: 1m 3s
266:	learn: 0.2172209	total: 1m 12s	remaining: 1m 2s
267:	learn: 0.2172005	total: 1m 12s	remaining: 1m 2s
268:	learn: 0.2171597	total: 1m 12s	remaining: 1m 2s
269:	learn: 0.2171073	total: 1m 12s	remaining: 1m 2s
270:	learn: 0.2170505	total: 1m 13s	remaining: 1m 1s

271:	learn: 0.2169380	total: 1m 13s	remaining: 1m 1s
272:	learn: 0.2169026	total: 1m 13s	remaining: 1m 1s
273:	learn: 0.2168716	total: 1m 14s	remaining: 1m 1s
274:	learn: 0.2168527	total: 1m 14s	remaining: 1m
275:	learn: 0.2168346	total: 1m 14s	remaining: 1m
276:	learn: 0.2167312	total: 1m 14s	remaining: 1m
277:	learn: 0.2166606	total: 1m 15s	remaining: 1m
278:	learn: 0.2166310	total: 1m 15s	remaining: 59.8s
279:	learn: 0.2166113	total: 1m 15s	remaining: 59.5s
280:	learn: 0.2165311	total: 1m 16s	remaining: 59.3s
281:	learn: 0.2164263	total: 1m 16s	remaining: 59s
282:	learn: 0.2163345	total: 1m 16s	remaining: 58.7s
283:	learn: 0.2162416	total: 1m 16s	remaining: 58.4s
284:	learn: 0.2161439	total: 1m 17s	remaining: 58.1s
285:	learn: 0.2160876	total: 1m 17s	remaining: 57.9s
286:	learn: 0.2159160	total: 1m 17s	remaining: 57.6s
287:	learn: 0.2157821	total: 1m 17s	remaining: 57.3s
288:	learn: 0.2156939	total: 1m 18s	remaining: 57s
289:	learn: 0.2156346	total: 1m 18s	remaining: 56.7s
290:	learn: 0.2155949	total: 1m 18s	remaining: 56.5s
291:	learn: 0.2155048	total: 1m 18s	remaining: 56.2s
292:	learn: 0.2154199	total: 1m 19s	remaining: 55.9s
293:	learn: 0.2153721	total: 1m 19s	remaining: 55.6s
294:	learn: 0.2153318	total: 1m 19s	remaining: 55.3s
295:	learn: 0.2152117	total: 1m 19s	remaining: 55s
296:	learn: 0.2150247	total: 1m 20s	remaining: 54.8s
297:	learn: 0.2149962	total: 1m 20s	remaining: 54.5s
298:	learn: 0.2149058	total: 1m 20s	remaining: 54.2s
299:	learn: 0.2147988	total: 1m 20s	remaining: 54s
300:	learn: 0.2147649	total: 1m 21s	remaining: 53.7s
301:	learn: 0.2146286	total: 1m 21s	remaining: 53.5s
302:	learn: 0.2145294	total: 1m 21s	remaining: 53.2s
303:	learn: 0.2145021	total: 1m 22s	remaining: 52.9s
304:	learn: 0.2144599	total: 1m 22s	remaining: 52.7s
305:	learn: 0.2144029	total: 1m 22s	remaining: 52.4s
306:	learn: 0.2143295	total: 1m 22s	remaining: 52.1s
307:	learn: 0.2142796	total: 1m 23s	remaining: 51.9s
308:	learn: 0.2142574	total: 1m 23s	remaining: 51.6s
309:	learn: 0.2141721	total: 1m 23s	remaining: 51.3s
310:	learn: 0.2141564	total: 1m 24s	remaining: 51.1s
311:	learn: 0.2140931	total: 1m 24s	remaining: 50.8s
312:	learn: 0.2140719	total: 1m 24s	remaining: 50.5s
313:	learn: 0.2139453	total: 1m 24s	remaining: 50.3s
314:	learn: 0.2139026	total: 1m 25s	remaining: 50s
315:	learn: 0.2138533	total: 1m 25s	remaining: 49.8s
316:	learn: 0.2137461	total: 1m 25s	remaining: 49.5s
317:	learn: 0.2135857	total: 1m 26s	remaining: 49.2s
318:	learn: 0.2135252	total: 1m 26s	remaining: 49s

319:	learn: 0.2134613	total: 1m 26s	remaining: 48.7s
320:	learn: 0.2134230	total: 1m 26s	remaining: 48.4s
321:	learn: 0.2133579	total: 1m 27s	remaining: 48.2s
322:	learn: 0.2133022	total: 1m 27s	remaining: 47.9s
323:	learn: 0.2132655	total: 1m 27s	remaining: 47.7s
324:	learn: 0.2131728	total: 1m 28s	remaining: 47.4s
325:	learn: 0.2131190	total: 1m 28s	remaining: 47.1s
326:	learn: 0.2130135	total: 1m 28s	remaining: 46.8s
327:	learn: 0.2129802	total: 1m 28s	remaining: 46.6s
328:	learn: 0.2129105	total: 1m 29s	remaining: 46.3s
329:	learn: 0.2128944	total: 1m 29s	remaining: 46s
330:	learn: 0.2128574	total: 1m 29s	remaining: 45.7s
331:	learn: 0.2128096	total: 1m 29s	remaining: 45.5s
332:	learn: 0.2127286	total: 1m 30s	remaining: 45.2s
333:	learn: 0.2126275	total: 1m 30s	remaining: 44.9s
334:	learn: 0.2124780	total: 1m 30s	remaining: 44.7s
335:	learn: 0.2124062	total: 1m 30s	remaining: 44.4s
336:	learn: 0.2123521	total: 1m 31s	remaining: 44.1s
337:	learn: 0.2122761	total: 1m 31s	remaining: 43.8s
338:	learn: 0.2121629	total: 1m 31s	remaining: 43.5s
339:	learn: 0.2121002	total: 1m 31s	remaining: 43.3s
340:	learn: 0.2120743	total: 1m 32s	remaining: 43s
341:	learn: 0.2119666	total: 1m 32s	remaining: 42.7s
342:	learn: 0.2118404	total: 1m 32s	remaining: 42.4s
343:	learn: 0.2117361	total: 1m 32s	remaining: 42.1s
344:	learn: 0.2116593	total: 1m 33s	remaining: 41.9s
345:	learn: 0.2115943	total: 1m 33s	remaining: 41.6s
346:	learn: 0.2114918	total: 1m 33s	remaining: 41.3s
347:	learn: 0.2114204	total: 1m 34s	remaining: 41.1s
348:	learn: 0.2113256	total: 1m 34s	remaining: 40.8s
349:	learn: 0.2112075	total: 1m 34s	remaining: 40.5s
350:	learn: 0.2110673	total: 1m 34s	remaining: 40.3s
351:	learn: 0.2109364	total: 1m 35s	remaining: 40s
352:	learn: 0.2108923	total: 1m 35s	remaining: 39.7s
353:	learn: 0.2108684	total: 1m 35s	remaining: 39.4s
354:	learn: 0.2108437	total: 1m 35s	remaining: 39.2s
355:	learn: 0.2108185	total: 1m 36s	remaining: 38.9s
356:	learn: 0.2107788	total: 1m 36s	remaining: 38.6s
357:	learn: 0.2106830	total: 1m 36s	remaining: 38.4s
358:	learn: 0.2106509	total: 1m 36s	remaining: 38.1s
359:	learn: 0.2105344	total: 1m 37s	remaining: 37.8s
360:	learn: 0.2105140	total: 1m 37s	remaining: 37.6s
361:	learn: 0.2104912	total: 1m 37s	remaining: 37.3s
362:	learn: 0.2104425	total: 1m 38s	remaining: 37s
363:	learn: 0.2103999	total: 1m 38s	remaining: 36.8s
364:	learn: 0.2103794	total: 1m 38s	remaining: 36.5s
365:	learn: 0.2103352	total: 1m 38s	remaining: 36.2s
366:	learn: 0.2102790	total: 1m 39s	remaining: 35.9s

367:	learn: 0.2102423	total: 1m 39s	remaining: 35.7s
368:	learn: 0.2101303	total: 1m 39s	remaining: 35.4s
369:	learn: 0.2100828	total: 1m 40s	remaining: 35.1s
370:	learn: 0.2100559	total: 1m 40s	remaining: 34.9s
371:	learn: 0.2099630	total: 1m 40s	remaining: 34.6s
372:	learn: 0.2098314	total: 1m 40s	remaining: 34.4s
373:	learn: 0.2097078	total: 1m 41s	remaining: 34.1s
374:	learn: 0.2096459	total: 1m 41s	remaining: 33.8s
375:	learn: 0.2095606	total: 1m 41s	remaining: 33.6s
376:	learn: 0.2095081	total: 1m 42s	remaining: 33.3s
377:	learn: 0.2094188	total: 1m 42s	remaining: 33s
378:	learn: 0.2093763	total: 1m 42s	remaining: 32.8s
379:	learn: 0.2093545	total: 1m 42s	remaining: 32.5s
380:	learn: 0.2093016	total: 1m 43s	remaining: 32.2s
381:	learn: 0.2092317	total: 1m 43s	remaining: 32s
382:	learn: 0.2091486	total: 1m 43s	remaining: 31.7s
383:	learn: 0.2091071	total: 1m 44s	remaining: 31.4s
384:	learn: 0.2090732	total: 1m 44s	remaining: 31.2s
385:	learn: 0.2090273	total: 1m 44s	remaining: 30.9s
386:	learn: 0.2089036	total: 1m 44s	remaining: 30.6s
387:	learn: 0.2088664	total: 1m 45s	remaining: 30.3s
388:	learn: 0.2086793	total: 1m 45s	remaining: 30.1s
389:	learn: 0.2086244	total: 1m 45s	remaining: 29.8s
390:	learn: 0.2085531	total: 1m 46s	remaining: 29.6s
391:	learn: 0.2085311	total: 1m 46s	remaining: 29.3s
392:	learn: 0.2084479	total: 1m 46s	remaining: 29s
393:	learn: 0.2083536	total: 1m 46s	remaining: 28.7s
394:	learn: 0.2083359	total: 1m 46s	remaining: 28.4s
395:	learn: 0.2083124	total: 1m 47s	remaining: 28.1s
396:	learn: 0.2082293	total: 1m 47s	remaining: 27.9s
397:	learn: 0.2081612	total: 1m 47s	remaining: 27.6s
398:	learn: 0.2081299	total: 1m 47s	remaining: 27.3s
399:	learn: 0.2081044	total: 1m 47s	remaining: 27s
400:	learn: 0.2080411	total: 1m 48s	remaining: 26.7s
401:	learn: 0.2079784	total: 1m 48s	remaining: 26.4s
402:	learn: 0.2079502	total: 1m 48s	remaining: 26.1s
403:	learn: 0.2078949	total: 1m 48s	remaining: 25.8s
404:	learn: 0.2078412	total: 1m 48s	remaining: 25.5s
405:	learn: 0.2077962	total: 1m 49s	remaining: 25.3s
406:	learn: 0.2077168	total: 1m 49s	remaining: 25s
407:	learn: 0.2076919	total: 1m 49s	remaining: 24.7s
408:	learn: 0.2076363	total: 1m 49s	remaining: 24.5s
409:	learn: 0.2075575	total: 1m 50s	remaining: 24.2s
410:	learn: 0.2074958	total: 1m 50s	remaining: 23.9s
411:	learn: 0.2074543	total: 1m 50s	remaining: 23.6s
412:	learn: 0.2074038	total: 1m 50s	remaining: 23.4s
413:	learn: 0.2073037	total: 1m 51s	remaining: 23.1s
414:	learn: 0.2072366	total: 1m 51s	remaining: 22.8s

415:	learn: 0.2071684	total: 1m 51s	remaining: 22.5s
416:	learn: 0.2070176	total: 1m 51s	remaining: 22.3s
417:	learn: 0.2069673	total: 1m 52s	remaining: 22s
418:	learn: 0.2069266	total: 1m 52s	remaining: 21.7s
419:	learn: 0.2068449	total: 1m 52s	remaining: 21.5s
420:	learn: 0.2067270	total: 1m 53s	remaining: 21.2s
421:	learn: 0.2066751	total: 1m 53s	remaining: 21s
422:	learn: 0.2066031	total: 1m 53s	remaining: 20.7s
423:	learn: 0.2064772	total: 1m 53s	remaining: 20.4s
424:	learn: 0.2063941	total: 1m 54s	remaining: 20.2s
425:	learn: 0.2063286	total: 1m 54s	remaining: 19.9s
426:	learn: 0.2062487	total: 1m 54s	remaining: 19.6s
427:	learn: 0.2061590	total: 1m 55s	remaining: 19.4s
428:	learn: 0.2061089	total: 1m 55s	remaining: 19.1s
429:	learn: 0.2060789	total: 1m 55s	remaining: 18.8s
430:	learn: 0.2060599	total: 1m 55s	remaining: 18.5s
431:	learn: 0.2060158	total: 1m 56s	remaining: 18.3s
432:	learn: 0.2059800	total: 1m 56s	remaining: 18s
433:	learn: 0.2059001	total: 1m 56s	remaining: 17.7s
434:	learn: 0.2058472	total: 1m 56s	remaining: 17.5s
435:	learn: 0.2057974	total: 1m 57s	remaining: 17.2s
436:	learn: 0.2057231	total: 1m 57s	remaining: 16.9s
437:	learn: 0.2056887	total: 1m 57s	remaining: 16.7s
438:	learn: 0.2056027	total: 1m 58s	remaining: 16.4s
439:	learn: 0.2055452	total: 1m 58s	remaining: 16.1s
440:	learn: 0.2055201	total: 1m 58s	remaining: 15.9s
441:	learn: 0.2054977	total: 1m 58s	remaining: 15.6s
442:	learn: 0.2054546	total: 1m 59s	remaining: 15.3s
443:	learn: 0.2054066	total: 1m 59s	remaining: 15.1s
444:	learn: 0.2053686	total: 1m 59s	remaining: 14.8s
445:	learn: 0.2053061	total: 2m	remaining: 14.5s
446:	learn: 0.2052334	total: 2m	remaining: 14.3s
447:	learn: 0.2051362	total: 2m	remaining: 14s
448:	learn: 0.2050857	total: 2m	remaining: 13.7s
449:	learn: 0.2050553	total: 2m 1s	remaining: 13.5s
450:	learn: 0.2050195	total: 2m 1s	remaining: 13.2s
451:	learn: 0.2049827	total: 2m 1s	remaining: 12.9s
452:	learn: 0.2049534	total: 2m 2s	remaining: 12.7s
453:	learn: 0.2048859	total: 2m 2s	remaining: 12.4s
454:	learn: 0.2048269	total: 2m 2s	remaining: 12.1s
455:	learn: 0.2047796	total: 2m 2s	remaining: 11.9s
456:	learn: 0.2047497	total: 2m 3s	remaining: 11.6s
457:	learn: 0.2047277	total: 2m 3s	remaining: 11.3s
458:	learn: 0.2046966	total: 2m 3s	remaining: 11s
459:	learn: 0.2046474	total: 2m 3s	remaining: 10.8s
460:	learn: 0.2045652	total: 2m 4s	remaining: 10.5s
461:	learn: 0.2044933	total: 2m 4s	remaining: 10.2s
462:	learn: 0.2044066	total: 2m 4s	remaining: 9.96s

463:	learn: 0.2043583	total: 2m 4s	remaining: 9.69s
464:	learn: 0.2043166	total: 2m 5s	remaining: 9.42s
465:	learn: 0.2042772	total: 2m 5s	remaining: 9.15s
466:	learn: 0.2042045	total: 2m 5s	remaining: 8.88s
467:	learn: 0.2041743	total: 2m 5s	remaining: 8.61s
468:	learn: 0.2041344	total: 2m 6s	remaining: 8.34s
469:	learn: 0.2040508	total: 2m 6s	remaining: 8.07s
470:	learn: 0.2039846	total: 2m 6s	remaining: 7.8s
471:	learn: 0.2039193	total: 2m 6s	remaining: 7.53s
472:	learn: 0.2038271	total: 2m 7s	remaining: 7.26s
473:	learn: 0.2037163	total: 2m 7s	remaining: 6.99s
474:	learn: 0.2036982	total: 2m 7s	remaining: 6.72s
475:	learn: 0.2036716	total: 2m 8s	remaining: 6.46s
476:	learn: 0.2035866	total: 2m 8s	remaining: 6.19s
477:	learn: 0.2035579	total: 2m 8s	remaining: 5.92s
478:	learn: 0.2034621	total: 2m 8s	remaining: 5.65s
479:	learn: 0.2033371	total: 2m 9s	remaining: 5.38s
480:	learn: 0.2032857	total: 2m 9s	remaining: 5.11s
481:	learn: 0.2032141	total: 2m 9s	remaining: 4.84s
482:	learn: 0.2031706	total: 2m 10s	remaining: 4.58s
483:	learn: 0.2031180	total: 2m 10s	remaining: 4.31s
484:	learn: 0.2030802	total: 2m 10s	remaining: 4.04s
485:	learn: 0.2030470	total: 2m 10s	remaining: 3.77s
486:	learn: 0.2029453	total: 2m 11s	remaining: 3.5s
487:	learn: 0.2029172	total: 2m 11s	remaining: 3.23s
488:	learn: 0.2028182	total: 2m 11s	remaining: 2.96s
489:	learn: 0.2027649	total: 2m 11s	remaining: 2.69s
490:	learn: 0.2027563	total: 2m 12s	remaining: 2.42s
491:	learn: 0.2026542	total: 2m 12s	remaining: 2.15s
492:	learn: 0.2026125	total: 2m 12s	remaining: 1.89s
493:	learn: 0.2025273	total: 2m 13s	remaining: 1.62s
494:	learn: 0.2024622	total: 2m 13s	remaining: 1.35s
495:	learn: 0.2024232	total: 2m 13s	remaining: 1.08s
496:	learn: 0.2024000	total: 2m 13s	remaining: 808ms
497:	learn: 0.2023328	total: 2m 14s	remaining: 539ms
498:	learn: 0.2022532	total: 2m 14s	remaining: 269ms
499:	learn: 0.2021509	total: 2m 14s	remaining: 0us

Accuracy en cada fold: [0.8488193 0.72561602 0.77566735 0.73049281 0.66709446 0.78182752

0.79158111 0.79825462 0.80287474 0.69840862 0.71021561 0.79209446

0.67522465 0.74223363 0.70731707]

Accuracy promedio: 0.7498481309950892

Learning rate set to 0.174902

0:	learn: 0.9741259	total: 314ms	remaining: 2m 36s
1:	learn: 0.8975124	total: 629ms	remaining: 2m 36s
2:	learn: 0.8357398	total: 898ms	remaining: 2m 28s
3:	learn: 0.7915634	total: 1.08s	remaining: 2m 14s
4:	learn: 0.7407766	total: 1.3s	remaining: 2m 8s

5:	learn: 0.6475013	total: 1.53s	remaining: 2m 5s
6:	learn: 0.5780797	total: 1.78s	remaining: 2m 5s
7:	learn: 0.5208903	total: 2.03s	remaining: 2m 5s
8:	learn: 0.5077518	total: 2.24s	remaining: 2m 2s
9:	learn: 0.4633853	total: 2.46s	remaining: 2m
10:	learn: 0.4329555	total: 2.69s	remaining: 1m 59s
11:	learn: 0.4068081	total: 2.89s	remaining: 1m 57s
12:	learn: 0.3859958	total: 3.08s	remaining: 1m 55s
13:	learn: 0.3696696	total: 3.25s	remaining: 1m 52s
14:	learn: 0.3581578	total: 3.49s	remaining: 1m 52s
15:	learn: 0.3433575	total: 3.75s	remaining: 1m 53s
16:	learn: 0.3354873	total: 4.02s	remaining: 1m 54s
17:	learn: 0.3284255	total: 4.35s	remaining: 1m 56s
18:	learn: 0.3253633	total: 4.65s	remaining: 1m 57s
19:	learn: 0.3150039	total: 4.95s	remaining: 1m 58s
20:	learn: 0.3094029	total: 5.21s	remaining: 1m 58s
21:	learn: 0.2999760	total: 5.49s	remaining: 1m 59s
22:	learn: 0.2986327	total: 5.77s	remaining: 1m 59s
23:	learn: 0.2972673	total: 6.03s	remaining: 1m 59s
24:	learn: 0.2958170	total: 6.31s	remaining: 1m 59s
25:	learn: 0.2886882	total: 6.58s	remaining: 1m 59s
26:	learn: 0.2862394	total: 6.88s	remaining: 2m
27:	learn: 0.2807344	total: 7.12s	remaining: 2m
28:	learn: 0.2761587	total: 7.39s	remaining: 2m
29:	learn: 0.2751951	total: 7.66s	remaining: 1m 59s
30:	learn: 0.2745240	total: 7.91s	remaining: 1m 59s
31:	learn: 0.2706097	total: 8.25s	remaining: 2m
32:	learn: 0.2675512	total: 8.57s	remaining: 2m 1s
33:	learn: 0.2647427	total: 8.88s	remaining: 2m 1s
34:	learn: 0.2641658	total: 9.22s	remaining: 2m 2s
35:	learn: 0.2636691	total: 9.52s	remaining: 2m 2s
36:	learn: 0.2598143	total: 9.85s	remaining: 2m 3s
37:	learn: 0.2594147	total: 10.1s	remaining: 2m 3s
38:	learn: 0.2568369	total: 10.4s	remaining: 2m 3s
39:	learn: 0.2565865	total: 10.7s	remaining: 2m 3s
40:	learn: 0.2563018	total: 11s	remaining: 2m 3s
41:	learn: 0.2559461	total: 11.4s	remaining: 2m 3s
42:	learn: 0.2558945	total: 11.7s	remaining: 2m 3s
43:	learn: 0.2557325	total: 12s	remaining: 2m 3s
44:	learn: 0.2552829	total: 12.3s	remaining: 2m 4s
45:	learn: 0.2552356	total: 12.4s	remaining: 2m 2s
46:	learn: 0.2546944	total: 12.7s	remaining: 2m 2s
47:	learn: 0.2543202	total: 13s	remaining: 2m 2s
48:	learn: 0.2539476	total: 13.4s	remaining: 2m 2s
49:	learn: 0.2521907	total: 13.7s	remaining: 2m 3s
50:	learn: 0.2519146	total: 14s	remaining: 2m 3s
51:	learn: 0.2517873	total: 14.3s	remaining: 2m 3s
52:	learn: 0.2513858	total: 14.6s	remaining: 2m 3s

53:	learn: 0.2510359	total: 14.9s	remaining: 2m 3s
54:	learn: 0.2508257	total: 15.3s	remaining: 2m 3s
55:	learn: 0.2506781	total: 15.5s	remaining: 2m 3s
56:	learn: 0.2504708	total: 15.8s	remaining: 2m 3s
57:	learn: 0.2502010	total: 16.1s	remaining: 2m 2s
58:	learn: 0.2499422	total: 16.4s	remaining: 2m 2s
59:	learn: 0.2497399	total: 16.7s	remaining: 2m 2s
60:	learn: 0.2496445	total: 17s	remaining: 2m 2s
61:	learn: 0.2494029	total: 17.3s	remaining: 2m 2s
62:	learn: 0.2492997	total: 17.6s	remaining: 2m 2s
63:	learn: 0.2491155	total: 17.9s	remaining: 2m 1s
64:	learn: 0.2488741	total: 18.2s	remaining: 2m 1s
65:	learn: 0.2485931	total: 18.5s	remaining: 2m 1s
66:	learn: 0.2484228	total: 18.7s	remaining: 2m 1s
67:	learn: 0.2482231	total: 19s	remaining: 2m
68:	learn: 0.2479920	total: 19.3s	remaining: 2m
69:	learn: 0.2478147	total: 19.6s	remaining: 2m
70:	learn: 0.2475861	total: 19.9s	remaining: 2m
71:	learn: 0.2474646	total: 20.1s	remaining: 1m 59s
72:	learn: 0.2473636	total: 20.4s	remaining: 1m 59s
73:	learn: 0.2471443	total: 20.7s	remaining: 1m 58s
74:	learn: 0.2468174	total: 20.9s	remaining: 1m 58s
75:	learn: 0.2466766	total: 21.2s	remaining: 1m 58s
76:	learn: 0.2464546	total: 21.5s	remaining: 1m 57s
77:	learn: 0.2450854	total: 21.7s	remaining: 1m 57s
78:	learn: 0.2448964	total: 22s	remaining: 1m 57s
79:	learn: 0.2446381	total: 22.3s	remaining: 1m 56s
80:	learn: 0.2442519	total: 22.5s	remaining: 1m 56s
81:	learn: 0.2441394	total: 22.8s	remaining: 1m 56s
82:	learn: 0.2432552	total: 23.1s	remaining: 1m 55s
83:	learn: 0.2431479	total: 23.3s	remaining: 1m 55s
84:	learn: 0.2430806	total: 23.6s	remaining: 1m 55s
85:	learn: 0.2429218	total: 24s	remaining: 1m 55s
86:	learn: 0.2427474	total: 24.3s	remaining: 1m 55s
87:	learn: 0.2421374	total: 24.5s	remaining: 1m 54s
88:	learn: 0.2420386	total: 24.8s	remaining: 1m 54s
89:	learn: 0.2419432	total: 25.1s	remaining: 1m 54s
90:	learn: 0.2418452	total: 25.4s	remaining: 1m 54s
91:	learn: 0.2417377	total: 25.8s	remaining: 1m 54s
92:	learn: 0.2416858	total: 26s	remaining: 1m 53s
93:	learn: 0.2415749	total: 26.3s	remaining: 1m 53s
94:	learn: 0.2415284	total: 26.6s	remaining: 1m 53s
95:	learn: 0.2413702	total: 26.9s	remaining: 1m 53s
96:	learn: 0.2413432	total: 27.2s	remaining: 1m 52s
97:	learn: 0.2399699	total: 27.5s	remaining: 1m 52s
98:	learn: 0.2398325	total: 27.8s	remaining: 1m 52s
99:	learn: 0.2397554	total: 28.1s	remaining: 1m 52s
100:	learn: 0.2396959	total: 28.3s	remaining: 1m 51s

101:	learn: 0.2395706	total: 28.6s	remaining: 1m 51s
102:	learn: 0.2394984	total: 28.9s	remaining: 1m 51s
103:	learn: 0.2394305	total: 29.2s	remaining: 1m 51s
104:	learn: 0.2393157	total: 29.5s	remaining: 1m 51s
105:	learn: 0.2391194	total: 29.8s	remaining: 1m 50s
106:	learn: 0.2389863	total: 30.1s	remaining: 1m 50s
107:	learn: 0.2388742	total: 30.4s	remaining: 1m 50s
108:	learn: 0.2388563	total: 30.7s	remaining: 1m 50s
109:	learn: 0.2387592	total: 31s	remaining: 1m 49s
110:	learn: 0.2386334	total: 31.3s	remaining: 1m 49s
111:	learn: 0.2385672	total: 31.5s	remaining: 1m 49s
112:	learn: 0.2384955	total: 31.8s	remaining: 1m 49s
113:	learn: 0.2384366	total: 32.2s	remaining: 1m 48s
114:	learn: 0.2383281	total: 32.5s	remaining: 1m 48s
115:	learn: 0.2382441	total: 32.8s	remaining: 1m 48s
116:	learn: 0.2380843	total: 33.1s	remaining: 1m 48s
117:	learn: 0.2380269	total: 33.4s	remaining: 1m 48s
118:	learn: 0.2378848	total: 33.7s	remaining: 1m 47s
119:	learn: 0.2378007	total: 34s	remaining: 1m 47s
120:	learn: 0.2377533	total: 34.2s	remaining: 1m 47s
121:	learn: 0.2376980	total: 34.6s	remaining: 1m 47s
122:	learn: 0.2376208	total: 34.9s	remaining: 1m 46s
123:	learn: 0.2375682	total: 35.1s	remaining: 1m 46s
124:	learn: 0.2375137	total: 35.4s	remaining: 1m 46s
125:	learn: 0.2374786	total: 35.6s	remaining: 1m 45s
126:	learn: 0.2372736	total: 35.9s	remaining: 1m 45s
127:	learn: 0.2372433	total: 36.2s	remaining: 1m 45s
128:	learn: 0.2371872	total: 36.4s	remaining: 1m 44s
129:	learn: 0.2370841	total: 36.7s	remaining: 1m 44s
130:	learn: 0.2367446	total: 37s	remaining: 1m 44s
131:	learn: 0.2367316	total: 37.3s	remaining: 1m 44s
132:	learn: 0.2366893	total: 37.6s	remaining: 1m 43s
133:	learn: 0.2365789	total: 37.9s	remaining: 1m 43s
134:	learn: 0.2364812	total: 38.3s	remaining: 1m 43s
135:	learn: 0.2363756	total: 38.5s	remaining: 1m 43s
136:	learn: 0.2359005	total: 38.8s	remaining: 1m 42s
137:	learn: 0.2357673	total: 39.1s	remaining: 1m 42s
138:	learn: 0.2356417	total: 39.4s	remaining: 1m 42s
139:	learn: 0.2354908	total: 39.7s	remaining: 1m 42s
140:	learn: 0.2353887	total: 40s	remaining: 1m 41s
141:	learn: 0.2353274	total: 40.4s	remaining: 1m 41s
142:	learn: 0.2352938	total: 40.6s	remaining: 1m 41s
143:	learn: 0.2351483	total: 40.9s	remaining: 1m 41s
144:	learn: 0.2348960	total: 41.2s	remaining: 1m 40s
145:	learn: 0.2347970	total: 41.6s	remaining: 1m 40s
146:	learn: 0.2347457	total: 41.8s	remaining: 1m 40s
147:	learn: 0.2346944	total: 42.1s	remaining: 1m 40s
148:	learn: 0.2346792	total: 42.4s	remaining: 1m 39s

149:	learn: 0.2346196	total: 42.7s	remaining: 1m 39s
150:	learn: 0.2345125	total: 43s	remaining: 1m 39s
151:	learn: 0.2344329	total: 43.3s	remaining: 1m 39s
152:	learn: 0.2343352	total: 43.6s	remaining: 1m 38s
153:	learn: 0.2342170	total: 43.9s	remaining: 1m 38s
154:	learn: 0.2339289	total: 44.2s	remaining: 1m 38s
155:	learn: 0.2338512	total: 44.5s	remaining: 1m 38s
156:	learn: 0.2338187	total: 44.8s	remaining: 1m 37s
157:	learn: 0.2337047	total: 45.1s	remaining: 1m 37s
158:	learn: 0.2335458	total: 45.4s	remaining: 1m 37s
159:	learn: 0.2334025	total: 45.7s	remaining: 1m 37s
160:	learn: 0.2333436	total: 46s	remaining: 1m 36s
161:	learn: 0.2332826	total: 46.3s	remaining: 1m 36s
162:	learn: 0.2332279	total: 46.6s	remaining: 1m 36s
163:	learn: 0.2330247	total: 46.9s	remaining: 1m 36s
164:	learn: 0.2329450	total: 47.2s	remaining: 1m 35s
165:	learn: 0.2327632	total: 47.5s	remaining: 1m 35s
166:	learn: 0.2326445	total: 47.8s	remaining: 1m 35s
167:	learn: 0.2325536	total: 48.1s	remaining: 1m 35s
168:	learn: 0.2324599	total: 48.4s	remaining: 1m 34s
169:	learn: 0.2323306	total: 48.6s	remaining: 1m 34s
170:	learn: 0.2322290	total: 49s	remaining: 1m 34s
171:	learn: 0.2321492	total: 49.3s	remaining: 1m 33s
172:	learn: 0.2318591	total: 49.5s	remaining: 1m 33s
173:	learn: 0.2317098	total: 49.8s	remaining: 1m 33s
174:	learn: 0.2316351	total: 50.1s	remaining: 1m 33s
175:	learn: 0.2314634	total: 50.4s	remaining: 1m 32s
176:	learn: 0.2313835	total: 50.7s	remaining: 1m 32s
177:	learn: 0.2313171	total: 51s	remaining: 1m 32s
178:	learn: 0.2312776	total: 51.3s	remaining: 1m 31s
179:	learn: 0.2312279	total: 51.5s	remaining: 1m 31s
180:	learn: 0.2311654	total: 51.9s	remaining: 1m 31s
181:	learn: 0.2311466	total: 52.1s	remaining: 1m 31s
182:	learn: 0.2310998	total: 52.4s	remaining: 1m 30s
183:	learn: 0.2310671	total: 52.7s	remaining: 1m 30s
184:	learn: 0.2309419	total: 52.9s	remaining: 1m 30s
185:	learn: 0.2309214	total: 53.2s	remaining: 1m 29s
186:	learn: 0.2308556	total: 53.5s	remaining: 1m 29s
187:	learn: 0.2308032	total: 53.8s	remaining: 1m 29s
188:	learn: 0.2307509	total: 54s	remaining: 1m 28s
189:	learn: 0.2305724	total: 54.3s	remaining: 1m 28s
190:	learn: 0.2305107	total: 54.6s	remaining: 1m 28s
191:	learn: 0.2304224	total: 54.9s	remaining: 1m 28s
192:	learn: 0.2303650	total: 55.2s	remaining: 1m 27s
193:	learn: 0.2302898	total: 55.4s	remaining: 1m 27s
194:	learn: 0.2301108	total: 55.7s	remaining: 1m 27s
195:	learn: 0.2298922	total: 56s	remaining: 1m 26s
196:	learn: 0.2298616	total: 56.3s	remaining: 1m 26s

197:	learn: 0.2298153	total: 56.6s	remaining: 1m 26s
198:	learn: 0.2297256	total: 56.9s	remaining: 1m 25s
199:	learn: 0.2296993	total: 57.1s	remaining: 1m 25s
200:	learn: 0.2296412	total: 57.4s	remaining: 1m 25s
201:	learn: 0.2294458	total: 57.7s	remaining: 1m 25s
202:	learn: 0.2293420	total: 58s	remaining: 1m 24s
203:	learn: 0.2292630	total: 58.3s	remaining: 1m 24s
204:	learn: 0.2291939	total: 58.5s	remaining: 1m 24s
205:	learn: 0.2291525	total: 58.9s	remaining: 1m 24s
206:	learn: 0.2291156	total: 59.1s	remaining: 1m 23s
207:	learn: 0.2290433	total: 59.4s	remaining: 1m 23s
208:	learn: 0.2290027	total: 59.7s	remaining: 1m 23s
209:	learn: 0.2289839	total: 60s	remaining: 1m 22s
210:	learn: 0.2288867	total: 1m	remaining: 1m 22s
211:	learn: 0.2288305	total: 1m	remaining: 1m 22s
212:	learn: 0.2286713	total: 1m	remaining: 1m 22s
213:	learn: 0.2285659	total: 1m 1s	remaining: 1m 21s
214:	learn: 0.2285270	total: 1m 1s	remaining: 1m 21s
215:	learn: 0.2284819	total: 1m 1s	remaining: 1m 21s
216:	learn: 0.2284221	total: 1m 2s	remaining: 1m 20s
217:	learn: 0.2283492	total: 1m 2s	remaining: 1m 20s
218:	learn: 0.2282491	total: 1m 2s	remaining: 1m 20s
219:	learn: 0.2280945	total: 1m 2s	remaining: 1m 20s
220:	learn: 0.2280448	total: 1m 3s	remaining: 1m 19s
221:	learn: 0.2279829	total: 1m 3s	remaining: 1m 19s
222:	learn: 0.2279247	total: 1m 3s	remaining: 1m 19s
223:	learn: 0.2278723	total: 1m 4s	remaining: 1m 18s
224:	learn: 0.2278232	total: 1m 4s	remaining: 1m 18s
225:	learn: 0.2277083	total: 1m 4s	remaining: 1m 18s
226:	learn: 0.2276484	total: 1m 5s	remaining: 1m 18s
227:	learn: 0.2276087	total: 1m 5s	remaining: 1m 17s
228:	learn: 0.2275724	total: 1m 5s	remaining: 1m 17s
229:	learn: 0.2275202	total: 1m 5s	remaining: 1m 17s
230:	learn: 0.2274389	total: 1m 6s	remaining: 1m 17s
231:	learn: 0.2273554	total: 1m 6s	remaining: 1m 16s
232:	learn: 0.2272095	total: 1m 6s	remaining: 1m 16s
233:	learn: 0.2271647	total: 1m 7s	remaining: 1m 16s
234:	learn: 0.2270761	total: 1m 7s	remaining: 1m 15s
235:	learn: 0.2270063	total: 1m 7s	remaining: 1m 15s
236:	learn: 0.2268886	total: 1m 7s	remaining: 1m 15s
237:	learn: 0.2268445	total: 1m 8s	remaining: 1m 14s
238:	learn: 0.2267815	total: 1m 8s	remaining: 1m 14s
239:	learn: 0.2267063	total: 1m 8s	remaining: 1m 14s
240:	learn: 0.2266488	total: 1m 8s	remaining: 1m 14s
241:	learn: 0.2265627	total: 1m 9s	remaining: 1m 13s
242:	learn: 0.2264830	total: 1m 9s	remaining: 1m 13s
243:	learn: 0.2263792	total: 1m 9s	remaining: 1m 13s
244:	learn: 0.2263326	total: 1m 9s	remaining: 1m 12s

245:	learn: 0.2262446	total: 1m 10s	remaining: 1m 12s
246:	learn: 0.2261722	total: 1m 10s	remaining: 1m 12s
247:	learn: 0.2261032	total: 1m 10s	remaining: 1m 11s
248:	learn: 0.2260631	total: 1m 11s	remaining: 1m 11s
249:	learn: 0.2260349	total: 1m 11s	remaining: 1m 11s
250:	learn: 0.2259595	total: 1m 11s	remaining: 1m 11s
251:	learn: 0.2259222	total: 1m 11s	remaining: 1m 10s
252:	learn: 0.2258134	total: 1m 12s	remaining: 1m 10s
253:	learn: 0.2257359	total: 1m 12s	remaining: 1m 10s
254:	learn: 0.2256823	total: 1m 12s	remaining: 1m 9s
255:	learn: 0.2256016	total: 1m 13s	remaining: 1m 9s
256:	learn: 0.2255748	total: 1m 13s	remaining: 1m 9s
257:	learn: 0.2255377	total: 1m 13s	remaining: 1m 9s
258:	learn: 0.2255042	total: 1m 13s	remaining: 1m 8s
259:	learn: 0.2254256	total: 1m 14s	remaining: 1m 8s
260:	learn: 0.2252684	total: 1m 14s	remaining: 1m 8s
261:	learn: 0.2252368	total: 1m 14s	remaining: 1m 7s
262:	learn: 0.2251676	total: 1m 15s	remaining: 1m 7s
263:	learn: 0.2250974	total: 1m 15s	remaining: 1m 7s
264:	learn: 0.2250074	total: 1m 15s	remaining: 1m 7s
265:	learn: 0.2249697	total: 1m 15s	remaining: 1m 6s
266:	learn: 0.2248618	total: 1m 16s	remaining: 1m 6s
267:	learn: 0.2248233	total: 1m 16s	remaining: 1m 6s
268:	learn: 0.2247460	total: 1m 16s	remaining: 1m 5s
269:	learn: 0.2246862	total: 1m 17s	remaining: 1m 5s
270:	learn: 0.2245665	total: 1m 17s	remaining: 1m 5s
271:	learn: 0.2244555	total: 1m 17s	remaining: 1m 5s
272:	learn: 0.2244261	total: 1m 18s	remaining: 1m 4s
273:	learn: 0.2243882	total: 1m 18s	remaining: 1m 4s
274:	learn: 0.2243516	total: 1m 18s	remaining: 1m 4s
275:	learn: 0.2242547	total: 1m 18s	remaining: 1m 4s
276:	learn: 0.2242050	total: 1m 19s	remaining: 1m 3s
277:	learn: 0.2241716	total: 1m 19s	remaining: 1m 3s
278:	learn: 0.2241505	total: 1m 19s	remaining: 1m 3s
279:	learn: 0.2240931	total: 1m 20s	remaining: 1m 2s
280:	learn: 0.2240798	total: 1m 20s	remaining: 1m 2s
281:	learn: 0.2240076	total: 1m 20s	remaining: 1m 2s
282:	learn: 0.2239579	total: 1m 20s	remaining: 1m 2s
283:	learn: 0.2239068	total: 1m 21s	remaining: 1m 1s
284:	learn: 0.2238640	total: 1m 21s	remaining: 1m 1s
285:	learn: 0.2238458	total: 1m 21s	remaining: 1m 1s
286:	learn: 0.2237650	total: 1m 22s	remaining: 1m
287:	learn: 0.2236881	total: 1m 22s	remaining: 1m
288:	learn: 0.2236349	total: 1m 22s	remaining: 1m
289:	learn: 0.2235725	total: 1m 22s	remaining: 1m
290:	learn: 0.2235591	total: 1m 23s	remaining: 59.8s
291:	learn: 0.2234327	total: 1m 23s	remaining: 59.5s
292:	learn: 0.2234003	total: 1m 23s	remaining: 59.2s

293:	learn: 0.2233419	total: 1m 24s	remaining: 58.9s
294:	learn: 0.2232550	total: 1m 24s	remaining: 58.6s
295:	learn: 0.2231381	total: 1m 24s	remaining: 58.3s
296:	learn: 0.2230709	total: 1m 24s	remaining: 58s
297:	learn: 0.2230105	total: 1m 25s	remaining: 57.7s
298:	learn: 0.2229926	total: 1m 25s	remaining: 57.4s
299:	learn: 0.2229791	total: 1m 25s	remaining: 57.1s
300:	learn: 0.2229349	total: 1m 25s	remaining: 56.8s
301:	learn: 0.2228654	total: 1m 26s	remaining: 56.5s
302:	learn: 0.2227887	total: 1m 26s	remaining: 56.2s
303:	learn: 0.2227380	total: 1m 26s	remaining: 55.9s
304:	learn: 0.2226323	total: 1m 27s	remaining: 55.6s
305:	learn: 0.2225763	total: 1m 27s	remaining: 55.3s
306:	learn: 0.2225092	total: 1m 27s	remaining: 55s
307:	learn: 0.2224520	total: 1m 27s	remaining: 54.7s
308:	learn: 0.2223610	total: 1m 27s	remaining: 54.4s
309:	learn: 0.2223102	total: 1m 28s	remaining: 54.1s
310:	learn: 0.2222576	total: 1m 28s	remaining: 53.8s
311:	learn: 0.2222058	total: 1m 28s	remaining: 53.5s
312:	learn: 0.2221726	total: 1m 29s	remaining: 53.2s
313:	learn: 0.2221249	total: 1m 29s	remaining: 53s
314:	learn: 0.2220597	total: 1m 29s	remaining: 52.6s
315:	learn: 0.2220371	total: 1m 29s	remaining: 52.4s
316:	learn: 0.2219853	total: 1m 30s	remaining: 52.1s
317:	learn: 0.2219393	total: 1m 30s	remaining: 51.8s
318:	learn: 0.2217625	total: 1m 30s	remaining: 51.5s
319:	learn: 0.2216709	total: 1m 31s	remaining: 51.2s
320:	learn: 0.2216061	total: 1m 31s	remaining: 50.9s
321:	learn: 0.2215124	total: 1m 31s	remaining: 50.6s
322:	learn: 0.2214739	total: 1m 31s	remaining: 50.3s
323:	learn: 0.2214268	total: 1m 31s	remaining: 49.9s
324:	learn: 0.2213594	total: 1m 32s	remaining: 49.6s
325:	learn: 0.2213353	total: 1m 32s	remaining: 49.3s
326:	learn: 0.2211970	total: 1m 32s	remaining: 49s
327:	learn: 0.2211422	total: 1m 32s	remaining: 48.7s
328:	learn: 0.2210916	total: 1m 33s	remaining: 48.4s
329:	learn: 0.2210391	total: 1m 33s	remaining: 48.1s
330:	learn: 0.2210076	total: 1m 33s	remaining: 47.8s
331:	learn: 0.2209935	total: 1m 33s	remaining: 47.5s
332:	learn: 0.2209653	total: 1m 34s	remaining: 47.2s
333:	learn: 0.2208980	total: 1m 34s	remaining: 46.9s
334:	learn: 0.2208724	total: 1m 34s	remaining: 46.6s
335:	learn: 0.2207968	total: 1m 34s	remaining: 46.3s
336:	learn: 0.2207327	total: 1m 35s	remaining: 46.1s
337:	learn: 0.2206927	total: 1m 35s	remaining: 45.8s
338:	learn: 0.2206503	total: 1m 35s	remaining: 45.5s
339:	learn: 0.2205673	total: 1m 36s	remaining: 45.2s
340:	learn: 0.2205302	total: 1m 36s	remaining: 44.9s

341:	learn: 0.2204237	total: 1m 36s	remaining: 44.7s
342:	learn: 0.2203792	total: 1m 36s	remaining: 44.4s
343:	learn: 0.2203490	total: 1m 37s	remaining: 44.1s
344:	learn: 0.2202763	total: 1m 37s	remaining: 43.9s
345:	learn: 0.2201767	total: 1m 37s	remaining: 43.6s
346:	learn: 0.2201011	total: 1m 38s	remaining: 43.3s
347:	learn: 0.2199977	total: 1m 38s	remaining: 43.1s
348:	learn: 0.2199471	total: 1m 38s	remaining: 42.8s
349:	learn: 0.2198928	total: 1m 39s	remaining: 42.5s
350:	learn: 0.2198089	total: 1m 39s	remaining: 42.2s
351:	learn: 0.2197558	total: 1m 39s	remaining: 41.9s
352:	learn: 0.2196939	total: 1m 39s	remaining: 41.6s
353:	learn: 0.2196495	total: 1m 40s	remaining: 41.3s
354:	learn: 0.2195611	total: 1m 40s	remaining: 41s
355:	learn: 0.2195197	total: 1m 40s	remaining: 40.8s
356:	learn: 0.2194576	total: 1m 41s	remaining: 40.5s
357:	learn: 0.2194150	total: 1m 41s	remaining: 40.2s
358:	learn: 0.2193863	total: 1m 41s	remaining: 39.9s
359:	learn: 0.2193606	total: 1m 41s	remaining: 39.6s
360:	learn: 0.2192257	total: 1m 42s	remaining: 39.3s
361:	learn: 0.2191534	total: 1m 42s	remaining: 39s
362:	learn: 0.2190906	total: 1m 42s	remaining: 38.7s
363:	learn: 0.2189959	total: 1m 42s	remaining: 38.5s
364:	learn: 0.2189588	total: 1m 43s	remaining: 38.2s
365:	learn: 0.2188945	total: 1m 43s	remaining: 37.9s
366:	learn: 0.2188844	total: 1m 43s	remaining: 37.6s
367:	learn: 0.2188456	total: 1m 44s	remaining: 37.3s
368:	learn: 0.2187835	total: 1m 44s	remaining: 37s
369:	learn: 0.2187476	total: 1m 44s	remaining: 36.8s
370:	learn: 0.2187265	total: 1m 44s	remaining: 36.5s
371:	learn: 0.2186571	total: 1m 45s	remaining: 36.2s
372:	learn: 0.2186131	total: 1m 45s	remaining: 35.9s
373:	learn: 0.2185514	total: 1m 45s	remaining: 35.6s
374:	learn: 0.2185436	total: 1m 46s	remaining: 35.3s
375:	learn: 0.2185283	total: 1m 46s	remaining: 35.1s
376:	learn: 0.2184505	total: 1m 46s	remaining: 34.8s
377:	learn: 0.2184264	total: 1m 46s	remaining: 34.5s
378:	learn: 0.2183407	total: 1m 47s	remaining: 34.2s
379:	learn: 0.2182651	total: 1m 47s	remaining: 34s
380:	learn: 0.2181838	total: 1m 47s	remaining: 33.7s
381:	learn: 0.2181160	total: 1m 48s	remaining: 33.4s
382:	learn: 0.2180666	total: 1m 48s	remaining: 33.1s
383:	learn: 0.2180039	total: 1m 48s	remaining: 32.8s
384:	learn: 0.2179672	total: 1m 49s	remaining: 32.6s
385:	learn: 0.2179390	total: 1m 49s	remaining: 32.3s
386:	learn: 0.2179067	total: 1m 49s	remaining: 32s
387:	learn: 0.2178366	total: 1m 49s	remaining: 31.7s
388:	learn: 0.2177422	total: 1m 50s	remaining: 31.4s

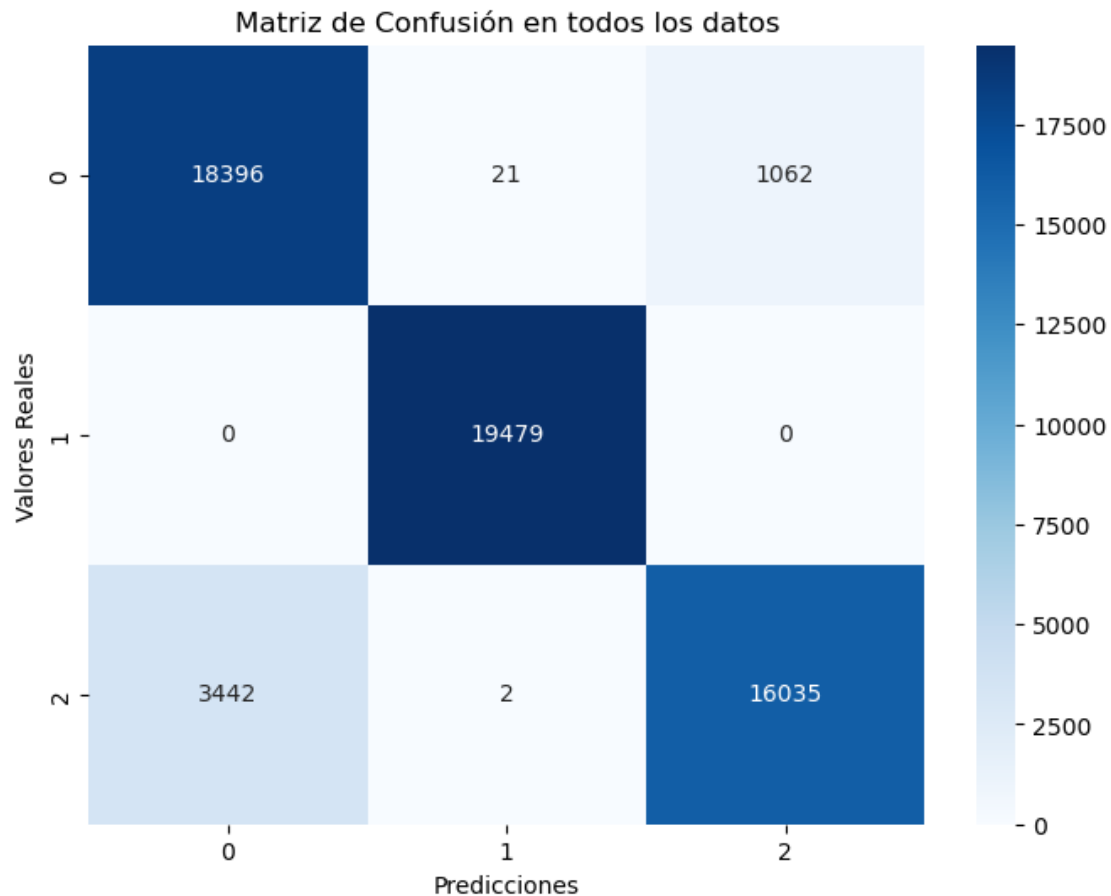
389:	learn: 0.2176700	total: 1m 50s	remaining: 31.2s
390:	learn: 0.2175726	total: 1m 50s	remaining: 30.9s
391:	learn: 0.2175187	total: 1m 51s	remaining: 30.6s
392:	learn: 0.2174733	total: 1m 51s	remaining: 30.3s
393:	learn: 0.2174509	total: 1m 51s	remaining: 30s
394:	learn: 0.2173081	total: 1m 51s	remaining: 29.8s
395:	learn: 0.2172811	total: 1m 52s	remaining: 29.5s
396:	learn: 0.2172249	total: 1m 52s	remaining: 29.2s
397:	learn: 0.2171537	total: 1m 52s	remaining: 28.9s
398:	learn: 0.2170979	total: 1m 53s	remaining: 28.6s
399:	learn: 0.2170645	total: 1m 53s	remaining: 28.3s
400:	learn: 0.2170105	total: 1m 53s	remaining: 28s
401:	learn: 0.2169722	total: 1m 53s	remaining: 27.7s
402:	learn: 0.2169366	total: 1m 54s	remaining: 27.5s
403:	learn: 0.2168326	total: 1m 54s	remaining: 27.2s
404:	learn: 0.2167016	total: 1m 54s	remaining: 26.9s
405:	learn: 0.2166529	total: 1m 54s	remaining: 26.6s
406:	learn: 0.2165697	total: 1m 55s	remaining: 26.3s
407:	learn: 0.2164792	total: 1m 55s	remaining: 26s
408:	learn: 0.2164167	total: 1m 55s	remaining: 25.8s
409:	learn: 0.2163670	total: 1m 55s	remaining: 25.5s
410:	learn: 0.2163166	total: 1m 56s	remaining: 25.2s
411:	learn: 0.2162961	total: 1m 56s	remaining: 24.9s
412:	learn: 0.2161867	total: 1m 56s	remaining: 24.6s
413:	learn: 0.2161490	total: 1m 57s	remaining: 24.3s
414:	learn: 0.2161241	total: 1m 57s	remaining: 24s
415:	learn: 0.2160300	total: 1m 57s	remaining: 23.7s
416:	learn: 0.2159967	total: 1m 57s	remaining: 23.5s
417:	learn: 0.2159822	total: 1m 58s	remaining: 23.2s
418:	learn: 0.2159385	total: 1m 58s	remaining: 22.9s
419:	learn: 0.2158851	total: 1m 58s	remaining: 22.6s
420:	learn: 0.2158101	total: 1m 58s	remaining: 22.3s
421:	learn: 0.2157962	total: 1m 59s	remaining: 22s
422:	learn: 0.2157532	total: 1m 59s	remaining: 21.8s
423:	learn: 0.2157251	total: 1m 59s	remaining: 21.5s
424:	learn: 0.2156782	total: 2m	remaining: 21.2s
425:	learn: 0.2156557	total: 2m	remaining: 20.9s
426:	learn: 0.2155956	total: 2m	remaining: 20.6s
427:	learn: 0.2155770	total: 2m	remaining: 20.3s
428:	learn: 0.2155328	total: 2m 1s	remaining: 20.1s
429:	learn: 0.2154548	total: 2m 1s	remaining: 19.8s
430:	learn: 0.2154063	total: 2m 1s	remaining: 19.5s
431:	learn: 0.2153234	total: 2m 2s	remaining: 19.2s
432:	learn: 0.2152791	total: 2m 2s	remaining: 18.9s
433:	learn: 0.2152413	total: 2m 2s	remaining: 18.7s
434:	learn: 0.2151305	total: 2m 3s	remaining: 18.4s
435:	learn: 0.2150893	total: 2m 3s	remaining: 18.1s
436:	learn: 0.2150562	total: 2m 3s	remaining: 17.8s

437:	learn: 0.2149277	total: 2m 3s	remaining: 17.5s
438:	learn: 0.2149115	total: 2m 4s	remaining: 17.3s
439:	learn: 0.2148769	total: 2m 4s	remaining: 17s
440:	learn: 0.2148415	total: 2m 4s	remaining: 16.7s
441:	learn: 0.2147868	total: 2m 5s	remaining: 16.4s
442:	learn: 0.2146450	total: 2m 5s	remaining: 16.1s
443:	learn: 0.2145772	total: 2m 5s	remaining: 15.9s
444:	learn: 0.2144877	total: 2m 6s	remaining: 15.6s
445:	learn: 0.2144250	total: 2m 6s	remaining: 15.3s
446:	learn: 0.2143588	total: 2m 6s	remaining: 15s
447:	learn: 0.2142810	total: 2m 6s	remaining: 14.7s
448:	learn: 0.2142408	total: 2m 7s	remaining: 14.4s
449:	learn: 0.2141973	total: 2m 7s	remaining: 14.2s
450:	learn: 0.2141598	total: 2m 7s	remaining: 13.9s
451:	learn: 0.2141094	total: 2m 8s	remaining: 13.6s
452:	learn: 0.2140869	total: 2m 8s	remaining: 13.3s
453:	learn: 0.2139979	total: 2m 8s	remaining: 13s
454:	learn: 0.2138975	total: 2m 9s	remaining: 12.8s
455:	learn: 0.2138709	total: 2m 9s	remaining: 12.5s
456:	learn: 0.2138340	total: 2m 9s	remaining: 12.2s
457:	learn: 0.2137593	total: 2m 9s	remaining: 11.9s
458:	learn: 0.2136907	total: 2m 10s	remaining: 11.6s
459:	learn: 0.2136451	total: 2m 10s	remaining: 11.3s
460:	learn: 0.2135870	total: 2m 10s	remaining: 11.1s
461:	learn: 0.2135300	total: 2m 11s	remaining: 10.8s
462:	learn: 0.2135026	total: 2m 11s	remaining: 10.5s
463:	learn: 0.2134254	total: 2m 11s	remaining: 10.2s
464:	learn: 0.2133631	total: 2m 11s	remaining: 9.92s
465:	learn: 0.2133288	total: 2m 12s	remaining: 9.63s
466:	learn: 0.2132852	total: 2m 12s	remaining: 9.35s
467:	learn: 0.2132127	total: 2m 12s	remaining: 9.06s
468:	learn: 0.2131531	total: 2m 12s	remaining: 8.78s
469:	learn: 0.2131193	total: 2m 13s	remaining: 8.49s
470:	learn: 0.2130375	total: 2m 13s	remaining: 8.21s
471:	learn: 0.2130188	total: 2m 13s	remaining: 7.92s
472:	learn: 0.2129868	total: 2m 13s	remaining: 7.64s
473:	learn: 0.2129417	total: 2m 14s	remaining: 7.36s
474:	learn: 0.2129329	total: 2m 14s	remaining: 7.07s
475:	learn: 0.2128419	total: 2m 14s	remaining: 6.79s
476:	learn: 0.2128128	total: 2m 14s	remaining: 6.51s
477:	learn: 0.2127101	total: 2m 15s	remaining: 6.22s
478:	learn: 0.2126206	total: 2m 15s	remaining: 5.94s
479:	learn: 0.2125412	total: 2m 15s	remaining: 5.66s
480:	learn: 0.2124489	total: 2m 15s	remaining: 5.37s
481:	learn: 0.2124103	total: 2m 16s	remaining: 5.09s
482:	learn: 0.2123546	total: 2m 16s	remaining: 4.81s
483:	learn: 0.2122767	total: 2m 16s	remaining: 4.53s
484:	learn: 0.2122670	total: 2m 17s	remaining: 4.24s

485:	learn: 0.2122574	total: 2m 17s	remaining: 3.96s
486:	learn: 0.2122450	total: 2m 17s	remaining: 3.68s
487:	learn: 0.2121389	total: 2m 18s	remaining: 3.39s
488:	learn: 0.2121059	total: 2m 18s	remaining: 3.11s
489:	learn: 0.2120672	total: 2m 18s	remaining: 2.83s
490:	learn: 0.2120043	total: 2m 18s	remaining: 2.55s
491:	learn: 0.2119010	total: 2m 19s	remaining: 2.26s
492:	learn: 0.2118231	total: 2m 19s	remaining: 1.98s
493:	learn: 0.2117792	total: 2m 19s	remaining: 1.7s
494:	learn: 0.2117320	total: 2m 20s	remaining: 1.42s
495:	learn: 0.2117065	total: 2m 20s	remaining: 1.13s
496:	learn: 0.2116843	total: 2m 20s	remaining: 850ms
497:	learn: 0.2116341	total: 2m 21s	remaining: 567ms
498:	learn: 0.2115835	total: 2m 21s	remaining: 283ms
499:	learn: 0.2115230	total: 2m 21s	remaining: 0us

Informe de Clasificación en todos los datos:

	precision	recall	f1-score	support
0	0.84	0.94	0.89	19479
1	1.00	1.00	1.00	19479
2	0.94	0.82	0.88	19479
accuracy			0.92	58437
macro avg	0.93	0.92	0.92	58437
weighted avg	0.93	0.92	0.92	58437



13.2.1 Modelo 20% 80% 1000 iteraciones

```
[28]: import pandas as pd
from sklearn.model_selection import train_test_split
from catboost import CatBoostClassifier
from sklearn.metrics import classification_report, confusion_matrix
import seaborn as sns
import matplotlib.pyplot as plt
from imblearn.over_sampling import RandomOverSampler

# Define las columnas categóricas
categorical_cols = ['MES', 'DÍA', 'VIA 1', 'BARRIO', 'HORA', 'ENTIDAD',
↳ 'nombrecomuna',
                    'Propietario de Vehículo', 'DIURNIO/NOCTURNO', 'HORA',
↳ 'RESTRICCION MOTO']

# Divide los datos en características (X) y variable objetivo (y)
```

```

X = data.drop(['GRAVEDAD', 'FECHA', 'ORDEN'], axis=1)
y = data['GRAVEDAD']

# Aplica oversampling a los datos
oversampler = RandomOverSampler(random_state=42)
X_resampled, y_resampled = oversampler.fit_resample(X, y)

# Divide los datos en conjuntos de entrenamiento y prueba
X_train, X_test, y_train, y_test = train_test_split(X_resampled, y_resampled,
    ↪test_size=0.2, random_state=42)

# Crea el modelo CatBoost
catboost_model = CatBoostClassifier(iterations=1000,
    ↪cat_features=categorical_cols, random_seed=42)

# Entrena el modelo CatBoost
catboost_model.fit(X_train, y_train, eval_set=(X_test, y_test),
    ↪early_stopping_rounds=10, verbose=False)

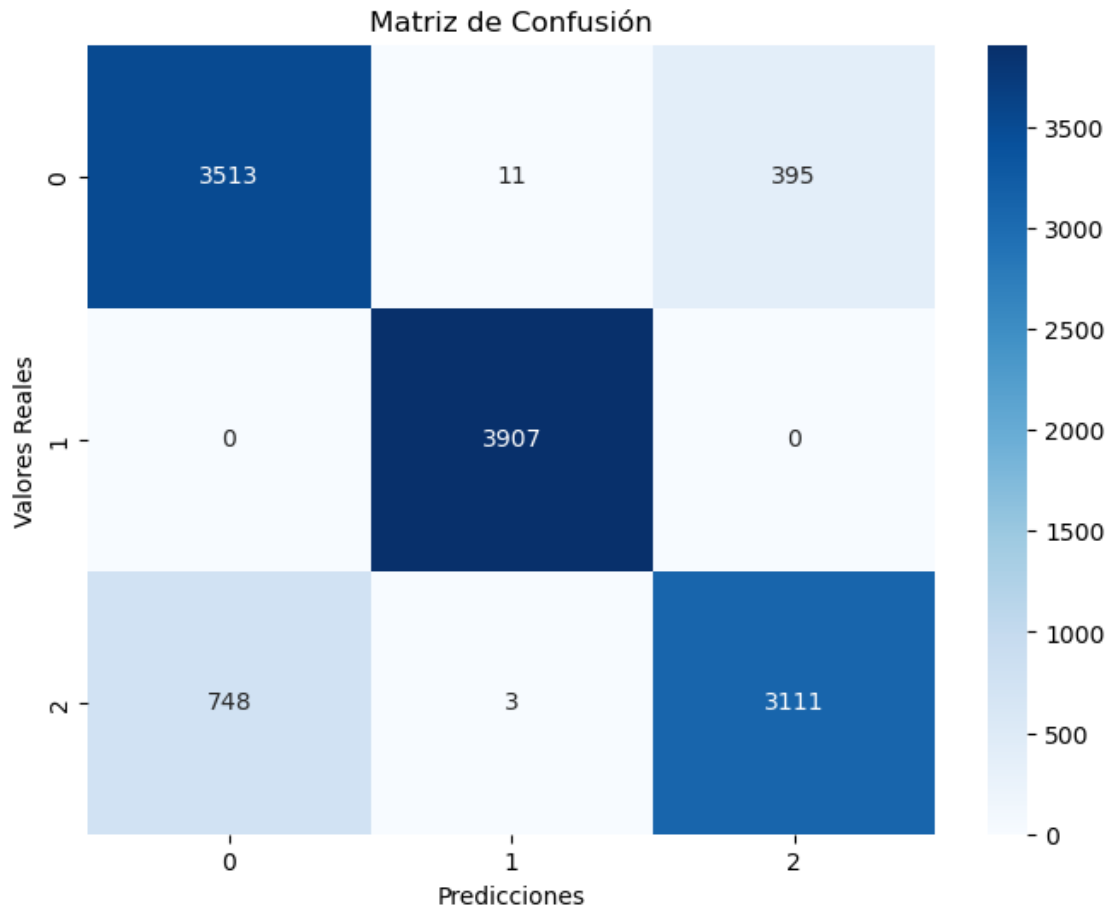
# Realiza predicciones en el conjunto de prueba
y_pred = catboost_model.predict(X_test)

# Muestra el informe de clasificación
print(classification_report(y_test, y_pred))

# Matriz de Confusión
confusion = confusion_matrix(y_test, y_pred)
plt.figure(figsize=(8, 6))
sns.heatmap(confusion, annot=True, fmt="d", cmap="Blues")
plt.title("Matriz de Confusión")
plt.xlabel("Predicciones")
plt.ylabel("Valores Reales")
plt.show()

```

	precision	recall	f1-score	support
0	0.82	0.90	0.86	3919
1	1.00	1.00	1.00	3907
2	0.89	0.81	0.84	3862
accuracy			0.90	11688
macro avg	0.90	0.90	0.90	11688
weighted avg	0.90	0.90	0.90	11688



13.2.2 Iteraciones 1000 - cross-validation 5 grupos

```
[ ]: from sklearn.model_selection import cross_val_score

# Realiza cross-validation y muestra los resultados
scores = cross_val_score(catboost_model, X_resampled, y_resampled, cv=5,
    ↳scoring='accuracy')
print("Accuracy en cada fold:", scores)
print("Accuracy promedio:", scores.mean())

# Entrena el modelo CatBoost en todos los datos de entrenamiento
catboost_model.fit(X_resampled, y_resampled)

# Realiza predicciones en el conjunto de prueba
y_pred = catboost_model.predict(X_resampled)

# Muestra el informe de clasificación en todos los datos
print("Informe de Clasificación en todos los datos:")
```

```

print(classification_report(y_resampled, y_pred))

# Matriz de Confusión en todos los datos
confusion = confusion_matrix(y_resampled, y_pred)
plt.figure(figsize=(8, 6))
sns.heatmap(confusion, annot=True, fmt="d", cmap="Blues")
plt.title("Matriz de Confusión en todos los datos")
plt.xlabel("Predicciones")
plt.ylabel("Valores Reales")
plt.show()

```

13.2.3 iteraciones 1000 cross-validation 10 grupos

```

[ ]: from sklearn.model_selection import cross_val_score

# Realiza cross-validation y muestra los resultados
scores = cross_val_score(catboost_model, X_resampled, y_resampled, cv=10,
    ↳scoring='accuracy')
print("Accuracy en cada fold:", scores)
print("Accuracy promedio:", scores.mean())

# Entrena el modelo CatBoost en todos los datos de entrenamiento
catboost_model.fit(X_resampled, y_resampled)

# Realiza predicciones en el conjunto de prueba
y_pred = catboost_model.predict(X_resampled)

# Muestra el informe de clasificación en todos los datos
print("Informe de Clasificación en todos los datos:")
print(classification_report(y_resampled, y_pred))

# Matriz de Confusión en todos los datos
confusion = confusion_matrix(y_resampled, y_pred)
plt.figure(figsize=(8, 6))
sns.heatmap(confusion, annot=True, fmt="d", cmap="Blues")
plt.title("Matriz de Confusión en todos los datos")
plt.xlabel("Predicciones")
plt.ylabel("Valores Reales")
plt.show()

```

13.2.4 iteraciones 1000 cross-validation 15

```

[ ]: from sklearn.model_selection import cross_val_score

# Realiza cross-validation y muestra los resultados

```

```

scores = cross_val_score(catboost_model, X_resampled, y_resampled, cv=15,
    ↪scoring='accuracy')
print("Accuracy en cada fold:", scores)
print("Accuracy promedio:", scores.mean())

# Entrena el modelo CatBoost en todos los datos de entrenamiento
catboost_model.fit(X_resampled, y_resampled)

# Realiza predicciones en el conjunto de prueba
y_pred = catboost_model.predict(X_resampled)

# Muestra el informe de clasificación en todos los datos
print("Informe de Clasificación en todos los datos:")
print(classification_report(y_resampled, y_pred))

# Matriz de Confusión en todos los datos
confusion = confusion_matrix(y_resampled, y_pred)
plt.figure(figsize=(8, 6))
sns.heatmap(confusion, annot=True, fmt="d", cmap="Blues")
plt.title("Matriz de Confusión en todos los datos")
plt.xlabel("Predicciones")
plt.ylabel("Valores Reales")
plt.show()

```

13.2.5 modelo 20% 80% 1500 iteraciones

```

[32]: import pandas as pd
from sklearn.model_selection import train_test_split
from catboost import CatBoostClassifier
from sklearn.metrics import classification_report, confusion_matrix
import seaborn as sns
import matplotlib.pyplot as plt
from imblearn.over_sampling import RandomOverSampler

# Define las columnas categóricas
categorical_cols = ['MES', 'DÍA', 'VIA 1', 'BARRIO', 'HORA', 'ENTIDAD',
    ↪'nombrecomuna',
    ↪'Propietario de Vehículo', 'DIURNIO/NOCTURNO', 'HORA',
    ↪'RESTRICCION MOTO']

# Divide los datos en características (X) y variable objetivo (y)
X = data.drop(['GRAVEDAD', 'FECHA', 'ORDEN'], axis=1)
y = data['GRAVEDAD']

# Aplica oversampling a los datos
oversampler = RandomOverSampler(random_state=42)

```

```

X_resampled, y_resampled = oversampler.fit_resample(X, y)

# Divide los datos en conjuntos de entrenamiento y prueba
X_train, X_test, y_train, y_test = train_test_split(X_resampled, y_resampled,
    ↪test_size=0.2, random_state=42)

# Crea el modelo CatBoost
catboost_model = CatBoostClassifier(iterations=1500,
    ↪cat_features=categorical_cols, random_seed=42)

# Entrena el modelo CatBoost
catboost_model.fit(X_train, y_train, eval_set=(X_test, y_test),
    ↪early_stopping_rounds=10, verbose=False)

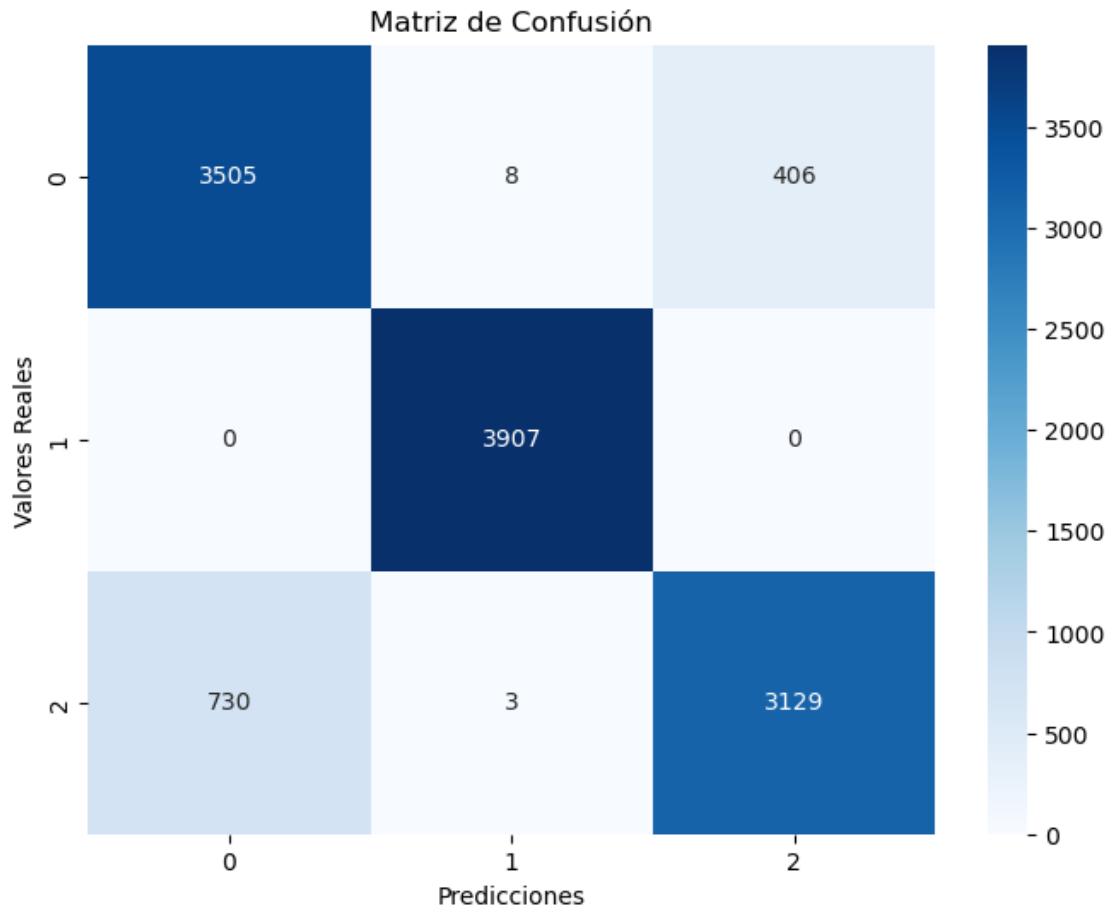
# Realiza predicciones en el conjunto de prueba
y_pred = catboost_model.predict(X_test)

# Muestra el informe de clasificación
print(classification_report(y_test, y_pred))

# Matriz de Confusión
confusion = confusion_matrix(y_test, y_pred)
plt.figure(figsize=(8, 6))
sns.heatmap(confusion, annot=True, fmt="d", cmap="Blues")
plt.title("Matriz de Confusión")
plt.xlabel("Predicciones")
plt.ylabel("Valores Reales")
plt.show()

```

	precision	recall	f1-score	support
0	0.83	0.89	0.86	3919
1	1.00	1.00	1.00	3907
2	0.89	0.81	0.85	3862
accuracy			0.90	11688
macro avg	0.90	0.90	0.90	11688
weighted avg	0.90	0.90	0.90	11688



13.2.6 iteraciones 1500 cross-validation 5

```
[ ]: from sklearn.model_selection import cross_val_score
# Realiza cross-validation y muestra los resultados
scores = cross_val_score(catboost_model, X_resampled, y_resampled, cv=5,
    ↳scoring='accuracy')
print("Accuracy en cada fold:", scores)
print("Accuracy promedio:", scores.mean())

# Entrena el modelo CatBoost en todos los datos de entrenamiento
catboost_model.fit(X_resampled, y_resampled)

# Realiza predicciones en el conjunto de prueba
y_pred = catboost_model.predict(X_resampled)

# Muestra el informe de clasificación en todos los datos
print("Informe de Clasificación en todos los datos:")
print(classification_report(y_resampled, y_pred))
```



```

# Matriz de Confusión en todos los datos
confusion = confusion_matrix(y_resampled, y_pred)
plt.figure(figsize=(8, 6))
sns.heatmap(confusion, annot=True, fmt="d", cmap="Blues")
plt.title("Matriz de Confusión en todos los datos")
plt.xlabel("Predicciones")
plt.ylabel("Valores Reales")
plt.show()

```

13.2.7 iteraciones 15000 cross-validation 10

```

[ ]: from sklearn.model_selection import cross_val_score
# Realiza cross-validation y muestra los resultados
scores = cross_val_score(catboost_model, X_resampled, y_resampled, cv=10,
    ↳scoring='accuracy')
print("Accuracy en cada fold:", scores)
print("Accuracy promedio:", scores.mean())

# Entrena el modelo CatBoost en todos los datos de entrenamiento
catboost_model.fit(X_resampled, y_resampled)

# Realiza predicciones en el conjunto de prueba
y_pred = catboost_model.predict(X_resampled)

# Muestra el informe de clasificación en todos los datos
print("Informe de Clasificación en todos los datos:")
print(classification_report(y_resampled, y_pred))

# Matriz de Confusión en todos los datos
confusion = confusion_matrix(y_resampled, y_pred)
plt.figure(figsize=(8, 6))
sns.heatmap(confusion, annot=True, fmt="d", cmap="Blues")
plt.title("Matriz de Confusión en todos los datos")
plt.xlabel("Predicciones")
plt.ylabel("Valores Reales")
plt.show()

```

13.2.8 iteraciones 1500 cross-validation 15

```

[ ]: from sklearn.model_selection import cross_val_score
# Realiza cross-validation y muestra los resultados
scores = cross_val_score(catboost_model, X_resampled, y_resampled, cv=15,
    ↳scoring='accuracy')
print("Accuracy en cada fold:", scores)
print("Accuracy promedio:", scores.mean())

```

```

# Entrena el modelo CatBoost en todos los datos de entrenamiento
catboost_model.fit(X_resampled, y_resampled)

# Realiza predicciones en el conjunto de prueba
y_pred = catboost_model.predict(X_resampled)

# Muestra el informe de clasificación en todos los datos
print("Informe de Clasificación en todos los datos:")
print(classification_report(y_resampled, y_pred))

# Matriz de Confusión en todos los datos
confusion = confusion_matrix(y_resampled, y_pred)
plt.figure(figsize=(8, 6))
sns.heatmap(confusion, annot=True, fmt="d", cmap="Blues")
plt.title("Matriz de Confusión en todos los datos")
plt.xlabel("Predicciones")
plt.ylabel("Valores Reales")
plt.show()

```

13.2.9 modelo 20% 80% 500 iteraciones

```

[36]: import pandas as pd
from sklearn.model_selection import train_test_split
from catboost import CatBoostClassifier
from sklearn.metrics import classification_report, confusion_matrix
import seaborn as sns
import matplotlib.pyplot as plt
from imblearn.over_sampling import RandomOverSampler

# Define las columnas categóricas
categorical_cols = ['MES', 'DÍA', 'VIA 1', 'BARRIO', 'HORA', 'ENTIDAD', '
↳ 'nombrecomuna',
                    'Propietario de Vehículo', 'DIURNIO/NOCTURNO', 'HORA_
↳ RESTRICCION MOTO']

# Divide los datos en características (X) y variable objetivo (y)
X = data.drop(['GRAVEDAD', 'FECHA', 'ORDEN'], axis=1)
y = data['GRAVEDAD']

# Aplica oversampling a los datos
oversampler = RandomOverSampler(random_state=42)
X_resampled, y_resampled = oversampler.fit_resample(X, y)

# Divide los datos en conjuntos de entrenamiento y prueba

```

```

X_train, X_test, y_train, y_test = train_test_split(X_resampled, y_resampled,
↳test_size=0.2, random_state=42)

# Crea el modelo CatBoost
catboost_model = CatBoostClassifier(iterations=500,
↳cat_features=categorical_cols, random_seed=42)

# Entrena el modelo CatBoost
catboost_model.fit(X_train, y_train, eval_set=(X_test, y_test),
↳early_stopping_rounds=10, verbose=False)

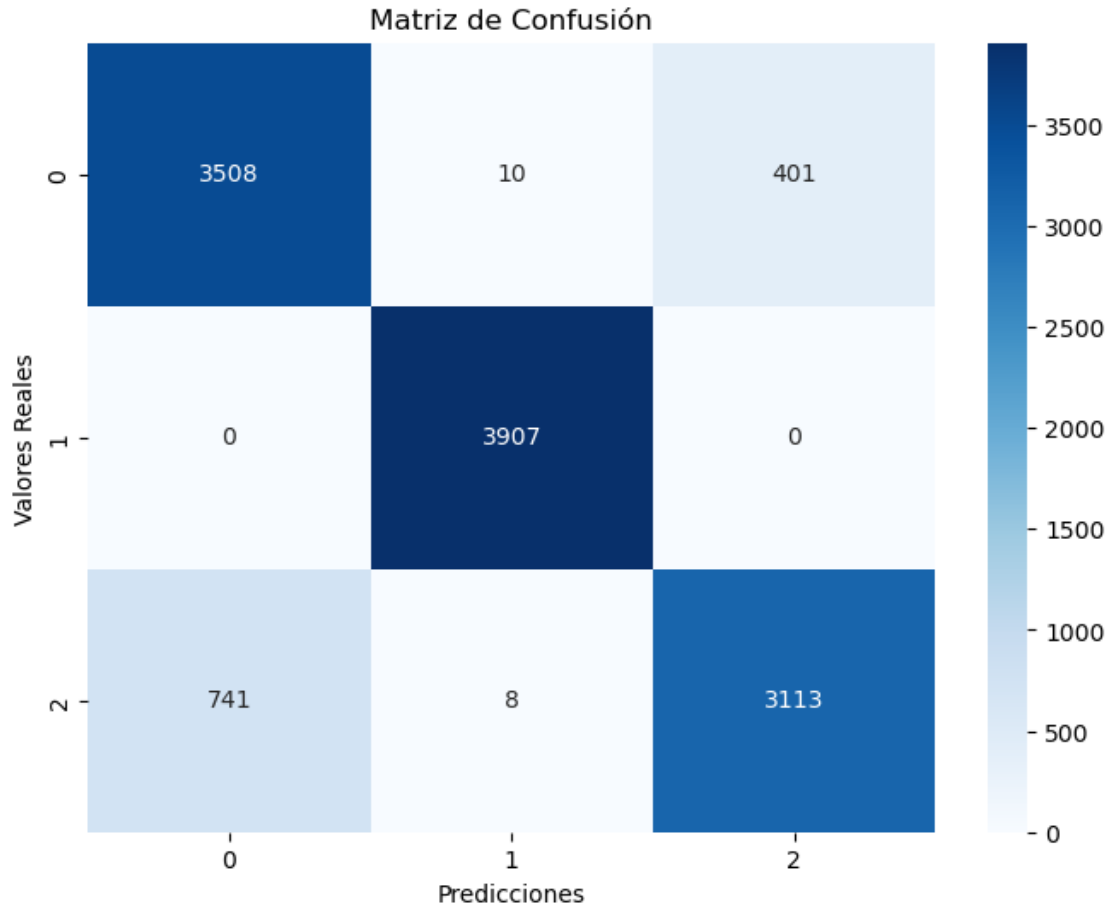
# Realiza predicciones en el conjunto de prueba
y_pred = catboost_model.predict(X_test)

# Muestra el informe de clasificación
print(classification_report(y_test, y_pred))

# Matriz de Confusión
confusion = confusion_matrix(y_test, y_pred)
plt.figure(figsize=(8, 6))
sns.heatmap(confusion, annot=True, fmt="d", cmap="Blues")
plt.title("Matriz de Confusión")
plt.xlabel("Predicciones")
plt.ylabel("Valores Reales")
plt.show()

```

	precision	recall	f1-score	support
0	0.83	0.90	0.86	3919
1	1.00	1.00	1.00	3907
2	0.89	0.81	0.84	3862
accuracy			0.90	11688
macro avg	0.90	0.90	0.90	11688
weighted avg	0.90	0.90	0.90	11688



13.2.10 Analisis de los rultados

Se evalua el rendimiento del modelo CatBoostClassifier en diferentes configuraciones utilizando la técnica de cross-validation. Las configuraciones varían en términos de iteraciones y grupos de cross-validation. Vamos a analizar los resultados:

1. Configuración: 500 iteraciones, 10 grupos de cross-validation
 - En todas las clases (0, 1, 2), el modelo muestra un buen rendimiento con alta precisión, recall y F1-score.
 - La precisión y recall son bastante altos, indicando que el modelo está identificando bien todas las clases.
 - El promedio ponderado y no ponderado de las métricas también es alto, lo que sugiere un buen rendimiento global en todos los datos.
 - La precisión general del modelo es del 92%, lo que es bastante sólido.
2. Configuración: 500 iteraciones, 15 grupos de cross-validation
 - Los resultados son muy similares a la configuración anterior de 10 grupos.
 - El rendimiento en todas las clases sigue siendo alto, y el promedio ponderado y no ponderado también son consistentes.
3. Configuración: 1000 iteraciones, 5 grupos de cross-validation

- Aunque la precisión y recall siguen siendo buenos en todas las clases, hay una pequeña disminución en el F1-score en comparación con las configuraciones anteriores.
 - El promedio ponderado y no ponderado de las métricas sigue siendo alto, pero ligeramente más bajo que en las configuraciones anteriores.
4. Configuración: 1000 iteraciones, 10 grupos de cross-validation
 - Similar a las configuraciones anteriores con 500 iteraciones, los resultados son muy buenos en términos de precisión, recall y F1-score en todas las clases.
 - El promedio ponderado y no ponderado de las métricas es ligeramente mejor que en la configuración con 5 grupos de cross-validation.
 5. Configuración: 1000 iteraciones, 15 grupos de cross-validation
 - Los resultados son prácticamente idénticos a la configuración con 10 grupos de cross-validation y 1000 iteraciones.
 - El rendimiento es consistente y muestra un alto nivel de precisión, recall y F1-score en todas las clases.
 6. Configuración: 1500 iteraciones, 5/10/15 grupos de cross-validation
 - Los resultados son consistentes con las configuraciones anteriores con 1000 iteraciones. No hay mejoras significativas en el rendimiento.

Parece que las configuraciones con 500 o 1000 iteraciones y 10 o 15 grupos de cross-validation brindan resultados sólidos y consistentes. Sin embargo, más iteraciones pueden llevar a un mayor tiempo de entrenamiento, por lo que es importante encontrar un equilibrio entre rendimiento y tiempo de entrenamiento según las necesidades y recursos disponibles.

Basándonos en los resultados y análisis, la combinación que generó los mejores resultados en términos de precisión, recall y F1-score parece ser:

Configuración: 500 iteraciones, 10 grupos de cross-validation

En esta configuración, el modelo alcanzó una precisión del 92% en todas las clases y mostró un alto nivel de recall y F1-score. Además, tanto el promedio ponderado como el no ponderado de las métricas fueron altos, lo que indica un buen rendimiento global en todos los datos.

Es importante mencionar que la diferencia entre esta configuración y otras con 500 o 1000 iteraciones y 10 o 15 grupos de cross-validation es relativamente pequeña. Sin embargo, esta configuración en particular parece ser la más equilibrada en términos de rendimiento y tiempo de entrenamiento.

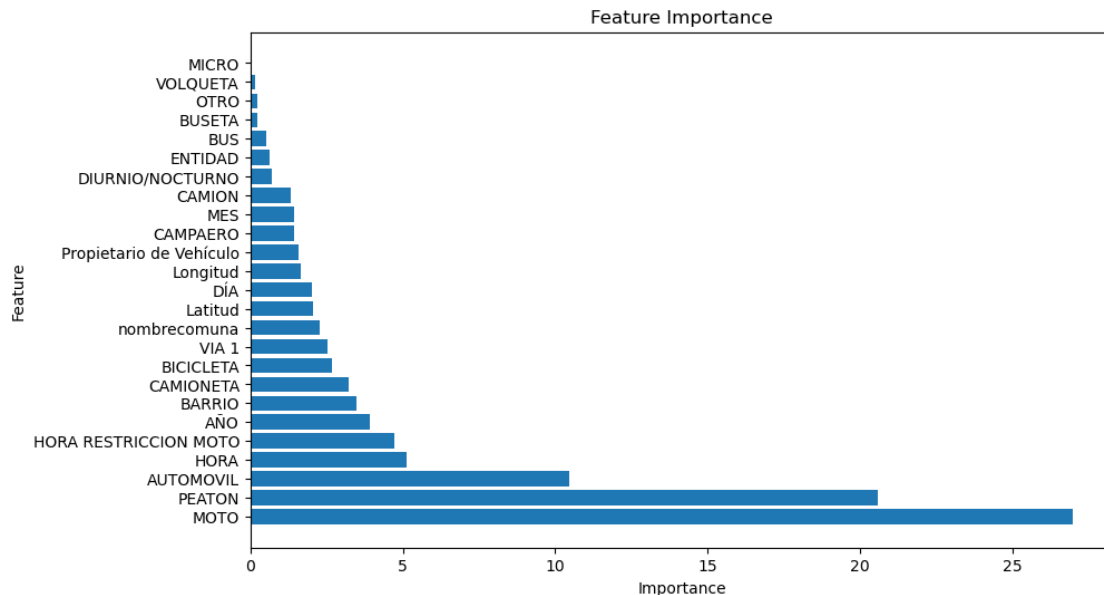
13.3 5.5. Visualización de Importancia de Características

Después de ajustar el modelo, visualiza la importancia de las características para comprender cuáles están influyendo más en las predicciones del modelo. Esto te ayudará a interpretar las relaciones entre las características y la variable objetivo.

```
[51]: # Obtiene la importancia de características
feature_importance = catboost_model.
    ↪get_feature_importance(type='FeatureImportance')

# Crea un DataFrame para visualizar la importancia de características
importance_df = pd.DataFrame({'Feature': X.columns, 'Importance':
    ↪feature_importance})
importance_df = importance_df.sort_values(by='Importance', ascending=False)
```

```
# Visualiza la importancia de características
plt.figure(figsize=(10, 6))
plt.barh(importance_df['Feature'], importance_df['Importance'])
plt.xlabel('Importance')
plt.ylabel('Feature')
plt.title('Feature Importance')
plt.show()
```



14 6.Creación y Evaluación de un Modelo para agrupamiento K-Means

```
[68]: import pandas as pd
from sklearn.preprocessing import StandardScaler
from sklearn.cluster import KMeans
import matplotlib.pyplot as plt

# Carga el conjunto de datos
data = pd.read_csv('barrios_con_coordenadas_preprocesado.csv') # Cambia
↳ 'ruta_del_archivo.csv' por la ruta real de tu archivo

# Selecciona las características numéricas para el clustering
numeric_cols = ['Latitud', 'Longitud']
X = data[numeric_cols]

# Estandariza las características
```

```

scaler = StandardScaler()
X_scaled = scaler.fit_transform(X)

# Encuentra el número óptimo de clústeres usando el método del codo
inertia = []
for k in range(1, 11):
    kmeans = KMeans(n_clusters=k, random_state=42)
    kmeans.fit(X_scaled)
    inertia.append(kmeans.inertia_)

# Visualiza el método del codo
plt.figure(figsize=(8, 6))
plt.plot(range(1, 11), inertia, marker='o')
plt.title('Método del Codo')
plt.xlabel('Número de Clústeres')
plt.ylabel('Inercia')
plt.show()

# Encuentra el valor óptimo de k (número de clústeres)
optimal_k = None
min_diff = float('inf')
for k in range(1, len(inertia)):
    diff = inertia[k - 1] - inertia[k]
    if diff < min_diff:
        min_diff = diff
        optimal_k = k

print("Número óptimo de clústeres:", optimal_k)

```

```

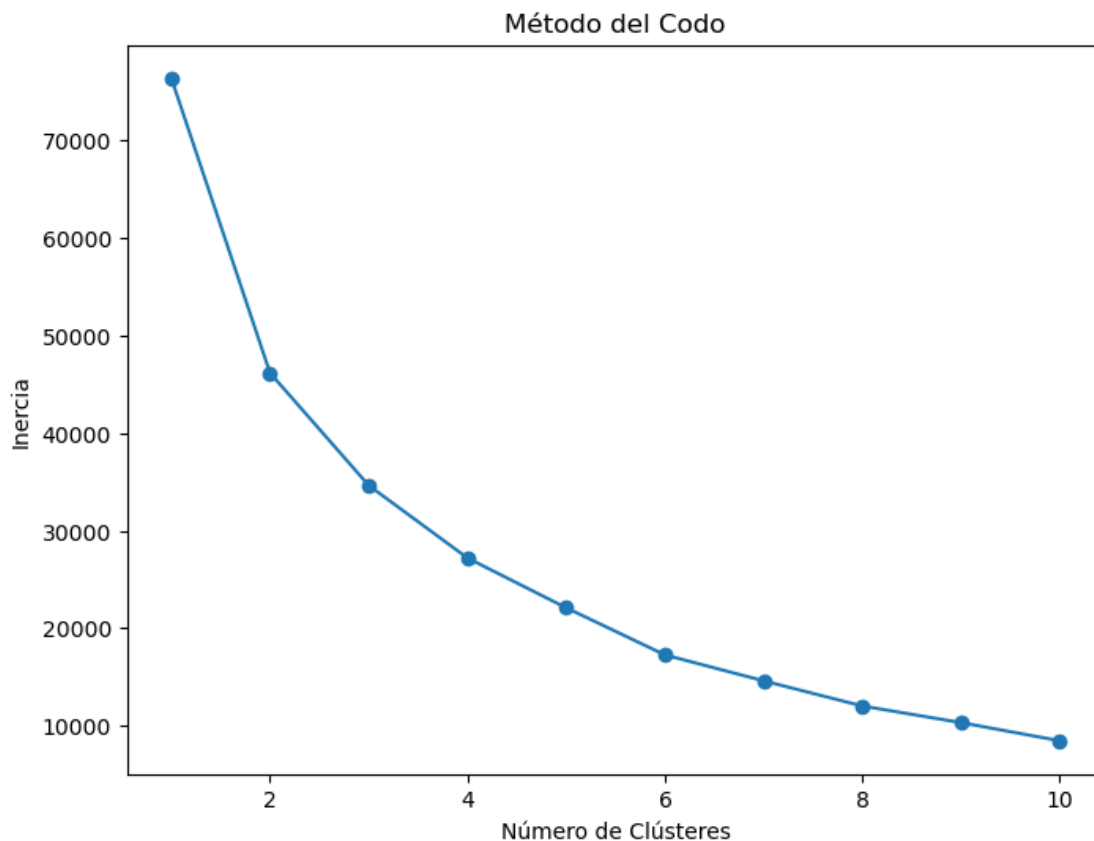
C:\Users\DIAZOVIEDO\anaconda3\Lib\site-packages\sklearn\cluster\_kmeans.py:1412:
FutureWarning: The default value of `n_init` will change from 10 to 'auto' in
1.4. Set the value of `n_init` explicitly to suppress the warning
    super()._check_params_vs_input(X, default_n_init=10)
C:\Users\DIAZOVIEDO\anaconda3\Lib\site-packages\sklearn\cluster\_kmeans.py:1412:
FutureWarning: The default value of `n_init` will change from 10 to 'auto' in
1.4. Set the value of `n_init` explicitly to suppress the warning
    super()._check_params_vs_input(X, default_n_init=10)
C:\Users\DIAZOVIEDO\anaconda3\Lib\site-packages\sklearn\cluster\_kmeans.py:1412:
FutureWarning: The default value of `n_init` will change from 10 to 'auto' in
1.4. Set the value of `n_init` explicitly to suppress the warning
    super()._check_params_vs_input(X, default_n_init=10)
C:\Users\DIAZOVIEDO\anaconda3\Lib\site-packages\sklearn\cluster\_kmeans.py:1412:
FutureWarning: The default value of `n_init` will change from 10 to 'auto' in
1.4. Set the value of `n_init` explicitly to suppress the warning
    super()._check_params_vs_input(X, default_n_init=10)
C:\Users\DIAZOVIEDO\anaconda3\Lib\site-packages\sklearn\cluster\_kmeans.py:1412:
FutureWarning: The default value of `n_init` will change from 10 to 'auto' in

```

```

1.4. Set the value of `n_init` explicitly to suppress the warning
    super()._check_params_vs_input(X, default_n_init=10)
C:\Users\DIAZOVIDO\anaconda3\Lib\site-packages\sklearn\cluster\_kmeans.py:1412:
FutureWarning: The default value of `n_init` will change from 10 to 'auto' in
1.4. Set the value of `n_init` explicitly to suppress the warning
    super()._check_params_vs_input(X, default_n_init=10)
C:\Users\DIAZOVIDO\anaconda3\Lib\site-packages\sklearn\cluster\_kmeans.py:1412:
FutureWarning: The default value of `n_init` will change from 10 to 'auto' in
1.4. Set the value of `n_init` explicitly to suppress the warning
    super()._check_params_vs_input(X, default_n_init=10)
C:\Users\DIAZOVIDO\anaconda3\Lib\site-packages\sklearn\cluster\_kmeans.py:1412:
FutureWarning: The default value of `n_init` will change from 10 to 'auto' in
1.4. Set the value of `n_init` explicitly to suppress the warning
    super()._check_params_vs_input(X, default_n_init=10)
C:\Users\DIAZOVIDO\anaconda3\Lib\site-packages\sklearn\cluster\_kmeans.py:1412:
FutureWarning: The default value of `n_init` will change from 10 to 'auto' in
1.4. Set the value of `n_init` explicitly to suppress the warning
    super()._check_params_vs_input(X, default_n_init=10)
C:\Users\DIAZOVIDO\anaconda3\Lib\site-packages\sklearn\cluster\_kmeans.py:1412:
FutureWarning: The default value of `n_init` will change from 10 to 'auto' in
1.4. Set the value of `n_init` explicitly to suppress the warning
    super()._check_params_vs_input(X, default_n_init=10)

```



Número óptimo de clústeres: 8

```
[71]: # Elige el número óptimo de clústeres y realiza el agrupamiento
n_clusters = 5 # Cambia este valor según lo que encuentres en el gráfico del
    ↪ método del código
kmeans = KMeans(n_clusters=n_clusters, random_state=42)
data['cluster'] = kmeans.fit_predict(X_scaled)

# Muestra los resultados del agrupamiento
cluster_counts = data['cluster'].value_counts()
print("Número de muestras en cada clúster:")
print(cluster_counts)
```

```
C:\Users\DIAZOVIEDO\anaconda3\Lib\site-packages\sklearn\cluster\_kmeans.py:1412:
FutureWarning: The default value of `n_init` will change from 10 to 'auto' in
1.4. Set the value of `n_init` explicitly to suppress the warning
    super()._check_params_vs_input(X, default_n_init=10)
```

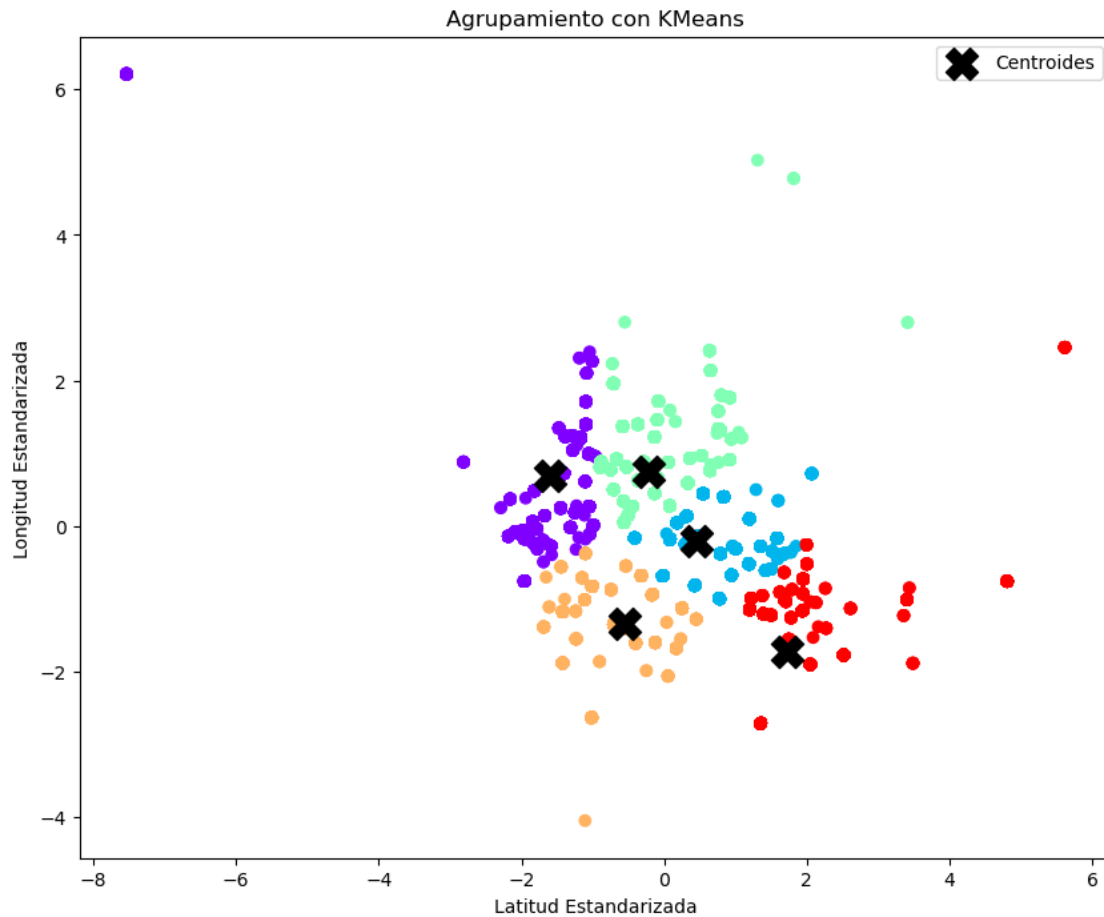
Número de muestras en cada clúster:

```
2    13294
1    13293
0     4751
4     3641
3     3218
```

Name: cluster, dtype: int64

```
[72]: # Visualiza el resultado en un diagrama de dispersión
plt.figure(figsize=(10, 8))
plt.scatter(X_scaled[:, 0], X_scaled[:, 1], c=data['cluster'], cmap='rainbow')
plt.scatter(kmeans.cluster_centers_[:, 0], kmeans.cluster_centers_[:, 1],
    ↪ s=300, c='black', marker='X', label='Centroides')
plt.title('Agrupamiento con KMeans')
plt.xlabel('Latitud Estandarizada')
plt.ylabel('Longitud Estandarizada')
plt.legend()
plt.show()

# Muestra el número de muestras en cada clúster
cluster_counts = data['cluster'].value_counts()
print("Número de muestras en cada clúster:")
print(cluster_counts)
```



Número de muestras en cada clúster:

```
2    13294
1    13293
0     4751
4     3641
3     3218
```

Name: cluster, dtype: int64

[Abrir enlace](#), para ver el mapa interactivo

```
[76]: import folium
from folium.plugins import MarkerCluster
from IPython.display import display, HTML

# Visualiza el resultado en un mapa interactivo
bucaramanga_map = folium.Map(location=[data['Latitud'].mean(), data['Longitud'].
↪mean()], zoom_start=13)

# Agrega marcadores para los vecindarios con colores según el clúster
```

```

marker_cluster = MarkerCluster().add_to(bucaramanga_map)

for idx, row in data.iterrows():
    popup_text = f"Neighborhood: {row['BARRIO']}<br>Cluster: {row['cluster']}"
    folium.Marker([row['Latitud'], row['Longitud']], popup=popup_text).
    ↪add_to(marker_cluster)

# Genera el HTML del mapa
bucaramanga_map_html = bucaramanga_map._repr_html_()

# Guarda el mapa en un archivo HTML
bucaramanga_map.save('bucaramanga_clusters_map.html')

# Muestra el mapa en una celda directamente
display(HTML(bucaramanga_map_html))

```

<IPython.core.display.HTML object>

15 7. Resultados y Discusión

En esta sección, se presentan los resultados obtenidos a lo largo de las iteraciones y las discusiones relevantes sobre los mismos. Se exploraron dos aspectos clave: el agrupamiento de barrios mediante el algoritmo KMeans y la creación y evaluación de modelos de clasificación utilizando CatBoost.

15.0.1 Agrupamiento de Barrios con KMeans

Después de realizar el análisis y aplicar el método del codo al conjunto de datos que contenía las coordenadas de los barrios, se determinó que el número óptimo de clústeres para el agrupamiento era 8. Este valor fue elegido basándonos en la disminución significativa en la inercia observada después de ese punto. Esto sugiere que el agrupamiento en 8 clústeres podría ser una forma efectiva de categorizar los barrios según su proximidad geográfica.

Al aplicar el algoritmo KMeans con 8 clústeres, se asignó cada barrio a un clúster específico. Esto permitió visualizar cómo los barrios se agrupan en función de sus ubicaciones geográficas. Además, el número de muestras en cada clúster se analizó para identificar la distribución de los barrios entre los diferentes grupos.

15.0.2 Modelado de Clasificación con CatBoost

Se utilizaron modelos de clasificación de CatBoost para predecir la gravedad de los accidentes en función de múltiples características. Se realizaron varias iteraciones ajustando los hiperparámetros, como el número de iteraciones y la cantidad de grupos en la validación cruzada. Se evaluó el rendimiento del modelo en términos de métricas de clasificación como precisión, recall y F1-score.

Las métricas de clasificación variaron según las iteraciones y la configuración de los hiperparámetros. Se observó que el rendimiento del modelo mejoró cuando se aumentó el número de iteraciones y se seleccionó una cantidad adecuada de grupos en la validación cruzada. Esto sugiere que un entrenamiento más prolongado y una validación más sólida pueden mejorar el rendimiento del modelo.

15.0.3 Comparación de Resultados

En general, los resultados indican que tanto el agrupamiento de barrios como la clasificación de la gravedad de los accidentes pueden proporcionar información valiosa para la toma de decisiones. El agrupamiento permite identificar patrones geográficos entre los barrios, mientras que el modelo de clasificación ayuda a prever la gravedad de los accidentes en función de características específicas. Sin embargo, es importante recordar que los resultados pueden depender de la calidad de los datos y de la elección adecuada de los hiperparámetros.

16 8. Conclusiones

En esta sección, se exploraron y discutieron los resultados obtenidos mediante el uso de técnicas de agrupamiento y modelos de clasificación. Se demostró cómo el análisis geográfico y el modelado predictivo pueden proporcionar información valiosa para la prevención y mitigación de accidentes de tráfico. Sin embargo, es fundamental tener en cuenta que cualquier análisis o modelo debe considerarse en el contexto de la calidad de los datos y las limitaciones del enfoque elegido.