

To Whom It May Concern

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Analysis Report

Report number : 12004/00131331.1/L/21 Composite prep date : 03-04-2021
Main Object : Gigantia Place of sampling : Esso Rotterdam Petroleumhaven
Report Date : 06-04-2021 Date received : 03-04-2021
Date of issue : 04-04-2021 Date completed : 04-04-2021
Sample object : Gigantia Sample number : 11405118
Sample type : Composite
Sample submitted as : Naphtha Light Virgin
Marked : Barge Gigantia multiple tank composite after loading

NAME	METHOD	UNIT	RESULT
Appearance	Visual	-	Bright & Clear
Color Saybolt	ASTM D 156	-	+30
Density at 15 °C	EN ISO 12185	kg/m³	685.0
PIONA	PNA-analyser		
Paraffins		vol %	72.7
I-paraffins		vol %	38.3
N-paraffins		vol %	34.4
Olefins		vol %	0.3
Naphtenes		vol %	24.1
Aromatics		vol %	3.0
Unsaturation		vol %	3.3
C4 & lighter		vol %	0.6
Benzene	GC	vol %	1.84
Total Organic Chloride	UOP 779	mg/kg	< 0.50
Distillation	ASTM D 86		
Initial boiling point		°C	37.1
5% Evaporated		°C	48.0
50% Evaporated		°C	64.1
90% Evaporated		°C	86.3
Final boiling point		°C	99.0
Residue		vol %	0.9
5% - 90% Evaporated		°C	38.3
Lead (Pb)	GF-AAS	µg/kg	<10
Organic oxygenate compounds	ASTM D 7423		
Methanol		mg/kg	< 5
Ethanol		mg/kg	27
MTBE		mg/kg	< 5
ETBE		mg/kg	< 5
Total Oxygenates		mg/kg	105
Sulphur (S)	ASTM D 5453	mg/kg	125
Hydrogen Sulfide and Mercaptan Sulphur	UOP 163		
Hydrogen Sulfide, as S		mg/kg	4

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NAME	METHOD	UNIT	RESULT
Mercaptan, as S		mg/kg	103
Mercury (Hg)	DMA 80	µg/kg	3
Motor Octane Number (MON)	ASTM D 2700	-	70
Research Octane Number (RON)	ASTM D 2699	-	70
Gum Content	ASTM D 381		
Gum Content (unwashed)		mg/1000 mL	<1
Gum Content (solvent-washed)		mg/1000 mL	<1
DVPE @ 100F	ASTM D 5191	kPa	64.5
Free water	Visual	-	None
Arsenic (Aa)	GF-AAS		
Arsenic (AS)		µg/kg	<10 (<1)

~ Due to restrictions enforced by terminal/refinery/vessels management and/or local laws and regulations, samples of concerned object have been taken via a closed/restricted sampling system.
With reference to API MPMS 12.11 it should be noted that when taking vessel samples, it may not be possible to obtain representative samples of nonhomogeneous cargoes due to the inherent nature of the cargo and the sampling restrictions.

Signed by: Judith Kram - Account Manager
Issued by: Saybolt Nederland BV
Place and date of issue: Rotterdam-Botlek - 04-04-2021

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