



Attention of : ExxonMobil BNL Mogas supply Operations
Your reference : INTB009FIN-2011-0411

Analysis Report

Report number	: 12004/00128329.1/L/20	Composite prep date	: 30-11-2020
Main Object	: Cayenne	Place of sampling	: Esso Rotterdam Petroleumhaven
Report Date	: 30-11-2020	Date received	: 30-11-2020
Date of issue	: 30-11-2020	Date completed	: 30-11-2020
Sample object	: Cayenne	Sample number	: 10849565
Sample type	: Composite		
Sample submitted as	: SC NAPHTHA DBZ		
Marked	: Barge Cayenne; multiple tank composite after loading		

Composite (10849565) ~			
SAMPLE NR	OBJECT	DESCRIPTION	RATIO
10849284	Cayenne	Barge Cayenne C1 pump stack after loading ~	
10849285	Cayenne	Barge Cayenne C2 pump stack after loading ~	
10849286	Cayenne	Barge Cayenne C3 pump stack after loading ~	
10849287	Cayenne	Barge Cayenne C4 pump stack after loading ~	
10849288	Cayenne	Barge Cayenne C5 pump stack after loading ~	
10849289	Cayenne	Barge Cayenne C6 pump stack after loading ~	
10849290	Cayenne	Barge Cayenne C7 pump stack after loading ~	
10849291	Cayenne	Barge Cayenne C8 pump stack after loading ~	
10849292	Cayenne	Barge Cayenne C9 pump stack after loading ~	
10849293	Cayenne	Barge Cayenne C10 pump stack after loading ~	
10849294	Cayenne	Barge Cayenne C11 pump stack after loading ~	

All results in this report refer to the sample(s) tested as taken or submitted like specified in this Analysis report. Uncertainties, available on request, apply in the evaluation of the test results. All tests are conducted according to the latest version of the methods, unless another version is specifically indicated. Where available and for convenience purposes, the tested sample has been checked for compliance with supplied specifications, without accepting any liability. In case of dispute or concern, we refer to the interpretation of test results as defined in ASTM D3244, IP 367, ISO 4259 or GOST 33701. This report shall not be partially copied and reproduced without the written permission of the laboratory.

ESSO NEDERLAND BV
CON/PMI
POSTBUS 1
4803AA, BREDA
Netherlands



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NAME	METHOD	UNIT	RESULT
Density at 15 °C	ASTM D 4052	kg/m³	833.6
DVPE	ASTM D 5191	kPa	28.4
Research Octane Number (RON)	ASTM D 2699	-	99.9
Motor Octane Number (MON)	ASTM D 2700	-	86.7
Sulphur (S)	ASTM D 5453	mg/kg	39
Benzene	GC	mass %	0.31
FIA (hydrocarbon types)	ASTM D 1319		
Olefins		vol %	20.9
Aromatics		vol %	65.9
Distillation	ASTM D 86		

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NAME	METHOD	UNIT	RESULT
Initial boiling point		°C	41.5
5% Recovered		°C	64.2
10% Recovered		°C	74.7
20% Recovered		°C	92.0
30% Recovered		°C	110.8
40% Recovered		°C	124.2
50% Recovered		°C	131.9
60% Recovered		°C	137.9
70% Recovered		°C	147.9
80% Recovered		°C	159.5
90% Recovered		°C	172.1
95% Recovered		°C	184.4
Final boiling point		°C	199.7
Recovery		vol %	98.4
Residue		vol %	1.0
Loss		vol %	0.6

~ 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: Patrick Visser - Customer Service Representative
 Issued by: Saybolt Nederland BV
 Place and date of issue: Rotterdam-Botlek - 30-11-2020

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