

To Whom It May Concern

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Analysis Report

Report number : 12004/00127453.1/L/20

Composite prep date : 02-11-2020

Main Object : Somtrans Lng

Place of sampling : Esso Rotterdam  
Petroleumhaven

Report Date : 03-11-2020

Date received : 02-11-2020

Date of issue : 02-11-2020

Date completed : 03-11-2020

Sample object : Somtrans Lng

Sample number : 10725167

Sample type : Composite

Sample submitted as : Naphtha Light Virgin

Marked : Barge Somtrans Lng multiple tank composite after loading

Composite ( 10725167 )			
SAMPLE NR	OBJECT	DESCRIPTION	RATIO
10724893	Somtrans Lng	Barge Somtrans Lng P1 running after loading	
10724894	Somtrans Lng	Barge Somtrans Lng P2 running after loading	
10724895	Somtrans Lng	Barge Somtrans Lng P3 running after loading	
10724896	Somtrans Lng	Barge Somtrans Lng P4 running after loading	
10724897	Somtrans Lng	Barge Somtrans Lng P5 running after loading	
10724898	Somtrans Lng	Barge Somtrans Lng P6 running after loading	
10724899	Somtrans Lng	Barge Somtrans Lng P7 running after loading	
10724900	Somtrans Lng	Barge Somtrans Lng S1 running after loading	
10724901	Somtrans Lng	Barge Somtrans Lng S2 running after loading	
10724902	Somtrans Lng	Barge Somtrans Lng S3 running after loading	
10724903	Somtrans Lng	Barge Somtrans Lng S4 running after loading	
10724904	Somtrans Lng	Barge Somtrans Lng S5 running after loading	
10724905	Somtrans Lng	Barge Somtrans Lng S6 running after loading	
10724906	Somtrans Lng	Barge Somtrans Lng S7 running after loading	

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NAME	METHOD	UNIT	RESULT
Appearance	Visual	-	Bright & Clear
Density at 15 °C	EN ISO 12185	kg/m³	677.0
PIONA	PNA-analyser		
Paraffins		vol %	75.9
I-paraffins		vol %	38.4
N-paraffins		vol %	37.4
Olefins		vol %	1.1
Naphtenes		vol %	20.7
Aromatics		vol %	2.4
Unsaturation		vol %	3.5
C4 & lighter		vol %	0.2
Benzene	GC	vol %	1.60
Total Organic Chloride	UOP 779	mg/kg	< 0.5
Color Saybolt	ASTM D 156	-	+ 28
Distillation	ASTM D 86		
Initial boiling point		°C	35.7
5% Evaporated		°C	44.7
50% Evaporated		°C	58.4
90% Evaporated		°C	82.2
Final boiling point		°C	101.4
Residue		vol %	0.7
5% - 90% Evaporated		°C	37.5
Lead (Pb)	GF-AAS	µg/kg	<10
Organic oxygenate compounds	ASTM D 7423		
Methanol		mg/kg	<5
Ethanol		mg/kg	<5
MTBE		mg/kg	<5
ETBE		mg/kg	<5
Total Oxygenates		mg/kg	75
Sulphur (S)	ASTM D 5453	mg/kg	79
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	37
Mercury (Hg)	DMA 80	µg/kg	<1
Free water	Visual	-	None
Motor Octane Number (MON)	ASTM D 2700	-	69
Research Octane Number (RON)	ASTM D 2699	-	71
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	71.7

Signed by: Fatih Eroglu - Sr Account Manager  
Issued by: Saybolt Nederland BV  
Place and date of issue: Rotterdam-Botlek - 02-11-2020

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