

To Whom It May Concern



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Analysis Report

Report number	: 12004/00129042.1/L/20	Date of sampling	: 30-12-2020
Main Object	: LS ANNE	Place of sampling	: Vopak Terminal Vlaardingen
Report Date	: 02-01-2021	Date received	: 30-12-2020
Date of issue	: 02-01-2021	Date completed	: 30-12-2020
Sample object	: LS ANNE	Sample number	: 10983547
Sample type	: Sampled		
Sample submitted as	: AP/E Core 150		
Marked	: Vessel LS ANNE deck composite before discharge into Shore tank 5015		

NAME	METHOD	UNIT	RESULT
Appearance	Visual	-	Clear and Bright
Kinematic Viscosity at 100 °C	ASTM D 7042	mm²/s	5.313

Signed by: Patrick Visser - Customer Service Representative  
Issued by: Saybolt Nederland BV  
Place and date of issue: Rotterdam-Botlek - 02-01-2021

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Analysis Report

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Main Object	: LS ANNE	Place of sampling	: Vopak Terminal Vlaardingen
Report Date	: 02-01-2021	Date received	: 30-12-2020
Date of issue	: 02-01-2021	Date completed	: 30-12-2020
Sample object	: LS ANNE	Sample number	: 10983548
Sample type	: Sampled		
Sample submitted as	: AP/E Core 150		
Marked	: Vessel LS ANNE manifold before discharge into Shore tank 5015		

NAME	METHOD	UNIT	RESULT
Appearance	Visual	-	Clear and Bright
Kinematic Viscosity at 100 °C	ASTM D 7042	mm²/s	5.318

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Analysis Report

Report number : 12004/00129042.1/L/20 Date of sampling : 31-12-2020  
Main Object : LS ANNE Place of sampling : Vopak Terminal Vlaardingen  
Report Date : 02-01-2021 Date received : 31-12-2020  
Date of issue : 02-01-2021 Date completed : 31-12-2020  
Sample object : 25 Sample number : 10987020  
Sample type : Sampled  
Sample submitted as : AP/E Core 150  
Marked : Shore line 25 end of shoreline near shoretank 5015 during discharge from Vessel LS ANNE

NAME	METHOD	UNIT	RESULT
Appearance	Visual	-	Clear & Bright
Kinematic Viscosity at 100 °C	ASTM D 7042	mm²/s	5.351

*~ 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.*

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Analysis Report

Report number : 12004/00129042.1/L/20

Composite prep date : 31-12-2020

Main Object : LS ANNE

Place of sampling : Vopak Terminal Vlaardingen

Report Date : 02-01-2021

Date received : 31-12-2020

Date of issue : 01-01-2021

Date completed : 01-01-2021

Sample object : 5015

Sample number : 10990888

Sample type : Composite

Sample submitted as : AP/E Core 150

Marked : Shore tank 5015 single tank composite prepared from upper, middle, lower after discharge from Vessel LS ANNE

Composite ( 10990888 )			
SAMPLE NR	OBJECT	DESCRIPTION	RATIO
10990628	5015	Shore tank 5015 upper after discharge from Vessel LS ANNE	
10990629	5015	Shore tank 5015 middle after discharge from Vessel LS ANNE	
10990630	5015	Shore tank 5015 lower after discharge from Vessel LS ANNE	

NAME	METHOD	UNIT	RESULT
Density at 15 °C	ASTM D 4052	kg/L	0.8679
Appearance	Visual	-	Clear & Bright
Color ASTM	ASTM D 1500	-	L 0.5
CCS Viscosity at -15 °C	ASTM D 5293	mPa.s	1060
Flash Point (COC)	ASTM D 92	°C	218
Kinematic Viscosity at 40 °C	ASTM D 445	mm²/s	31.2
Kinematic Viscosity at 100 °C	ASTM D 445	mm²/s	5.303
Noack Evaporation Loss - Method B	ASTM D 5800	mass %	14.6
Pour Point	ASTM D 5950	°C	-15
Viscosity Index	ASTM D 2270	-	101

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