

To Whom It May Concern



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Analysis Report

Report number	: 12004/00127295.2/L/20	Date of sampling	: 11-11-2020
Main Object	: HAVVA ANA	Place of sampling	: Vopak Terminal Vlaardingen
Report Date	: 12-11-2020	Date received	: 12-11-2020
Date of issue	: 12-11-2020	Date completed	: 12-11-2020
Sample object	: HAVVA ANA	Sample number	: 10764770
Sample type	: Sampled		
Sample submitted as	: AP/E Core 150		
Marked	: Vessel HAVVA ANA P2 lower before discharge into Shore tank 5016, 5015		

NAME	METHOD	UNIT	RESULT
Appearance	Visual	-	Clear and Bright
Kinematic Viscosity at 100 °C	ASTM D 7042	mm²/s	5.240

Signed by: Corla Lakerveld - Sr Account Manager
Issued by: Saybolt Nederland BV
Place and date of issue: Rotterdam-Botlek - 12-11-2020

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Report Date	: 12-11-2020	Date received	: 12-11-2020
Date of issue	: 12-11-2020	Date completed	: 12-11-2020
Sample object	: HAVVA ANA	Sample number	: 10764777
Sample type	: Sampled		
Sample submitted as	: AP/E Core 150		
Marked	: Vessel HAVVA ANA manifold before discharge into Shore tank 5016, 5015		

NAME	METHOD	UNIT	RESULT
Appearance	Visual	-	Clear and Bright
Kinematic Viscosity at 100 °C	ASTM D 7042	mm²/s	5.268

~ 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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Report Date	: 12-11-2020	Date received	: 12-11-2020
Date of issue	: 12-11-2020	Date completed	: 12-11-2020
Sample object	: 25	Sample number	: 10765057
Sample type	: Sampled		
Sample submitted as	: AP/E Core 150		
Marked	: Shore line 25 near shoretank 5015 during discharge from Vessel HAVVA ANA		

NAME	METHOD	UNIT	RESULT
Appearance	Visual	-	Clear and Bright
Kinematic Viscosity at 100 °C	ASTM D 7042	mm²/s	5.339

~ 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.
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Analysis Report

Report number : 12004/00127295.2/L/20

Composite prep date : 11-11-2020

Main Object : HAVVA ANA

Place of sampling : Vopak Terminal Vlaardingen

Report Date : 12-11-2020

Date received : 11-11-2020

Date of issue : 12-11-2020

Date completed : 12-11-2020

Sample object : 5015

Sample number : 10769028

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 HAVVA ANA

Composite (10769028)			
SAMPLE NR	OBJECT	DESCRIPTION	RATIO
10767828	5015	Shore tank 5015 upper after discharge from Vessel HAVVA ANA	
10767829	5015	Shore tank 5015 middle after discharge from Vessel HAVVA ANA	
10767830	5015	Shore tank 5015 lower after discharge from Vessel HAVVA ANA	

NAME	METHOD	UNIT	RESULT
Density at 15 °C	ASTM D 4052	kg/L	0.8699
Appearance	Visual	-	Clear & Bright
Color ASTM	ASTM D 1500	-	L 0.5
CCS Viscosity at -15 °C	ASTM D 5293	mPa.s	1108
Flash Point (COC)	ASTM D 92	°C	216
Kinematic Viscosity at 40 °C	ASTM D 445	mm²/s	30.7
Kinematic Viscosity at 100 °C	ASTM D 445	mm²/s	5.230
Noack Evaporation Loss - Method B	ASTM D 5800	mass %	15.0
Pour Point	ASTM D 5950	°C	-12
Viscosity Index	ASTM D 2270	-	100

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Analysis Report

Report number : 12004/00127295.2/L/20

Main Object : HAVVA ANA

Report Date : 12-11-2020

Date of issue : 12-11-2020

Sample object : 5016

Sample type : Composite

Sample submitted as : AP/E Core 150

Marked : Shore tank 5016 single tank composite prepared from upper, middle, lower after discharge from Vessel HAVVA ANA

Composite prep date : 11-11-2020

Place of sampling : Vopak Terminal Vlaardingen

Date received : 11-11-2020

Date completed : 12-11-2020

Sample number : 10769029

Composite (10769029)			
SAMPLE NR	OBJECT	DESCRIPTION	RATIO
10768447	5016	Shore tank 5016 upper after discharge from Vessel HAVVA ANA	
10768448	5016	Shore tank 5016 middle after discharge from Vessel HAVVA ANA	
10768449	5016	Shore tank 5016 lower after discharge from Vessel HAVVA ANA	

NAME	METHOD	UNIT	RESULT
Density at 15 °C	ASTM D 4052	kg/L	0.8698
Appearance	Visual	-	Clear & Bright
Color ASTM	ASTM D 1500	-	L 0.5
CCS Viscosity at -15 °C	ASTM D 5293	mPa.s	1079
Flash Point (COC)	ASTM D 92	°C	213
Kinematic Viscosity at 40 °C	ASTM D 445	mm²/s	30.7
Kinematic Viscosity at 100 °C	ASTM D 445	mm²/s	5.231
Noack Evaporation Loss - Method B	ASTM D 5800	mass %	14.9
Pour Point	ASTM D 5950	°C	-12
Viscosity Index	ASTM D 2270	-	100

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