

EXXONMOBIL PETROLEUM & CHEMICAL BV
RU 2235
POLDERDIJKWEG 3
B-2030 ANTWERPEN
Belgium
ExxonMobil Nwe Scheduler
NW21220



Job No 12004/00133523.0000/01/I/21
Report date 12 Jul 2021
Installation Vlaardingen, Netherlands, Vopak Terminal Vlaardingen

Barge Orinoco
Product AP/E Core 150

Bill of Lading date: 12-Jul-2021

Contents page

Saybolt Nederland BV has performed a survey of the above mentioned object, the findings of the survey are reflected in the following reports:

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Certificate of Quantity	one
Ullage Report Departure	one
Shore Tank Report Single	one
Sample Report	one

This report consists of 8 pages.

A copy of this report and all field documents and related correspondence will be retained for a period of 10 years, unless local law requires otherwise

Handled by: Corla Lakerveld

This report reflects only the findings at the time and place of the inspection and testing. This report is not a guarantee or policy of insurance with respect to the goods or the contractual performance of any party. Any person relying upon this report should be aware that issuer's activities are carried out under their general terms and conditions.

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Cover Page Loading

Loading data

Quantity data			
Bill of Lading is based on:		Shore tank measurements	
Bill of Lading figure amounts to Gross	Metric Tons Air	302.075	
Bill of Lading date		12 Jul 2021	
Average product temperature onboard	°C	27.98	
Calculation data			
Shore tank Volume conversion table used		54D	
Vessel Volume conversion table used		54D	
Shore data			
Loading Installation		Vopak Terminal Vlaardingen	
Shore tank number(s)		5015	
Shore tank measurements were carried out with		Shore equipment/ATG	by Automatic Tank Gauge
Shore tank temperatures were carried out with		Shore equipment/ATG	by Automatic Tank Temperature
Vessel data			
Cargo stowed in cargo tanks		C1, C6	

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Time Log

09 Jul 2021 (Friday)	
10:58	Object announced at installation
11 Jul 2021 (Sunday)	
15:40	Moored alongside berth 622
16:20	Saybolt on board before operation
16:50	Completed initial inspection, tanks inspected and accepted
12 Jul 2021 (Monday)	
05:30	Hose remained connected
06:30	Shoreline 22 filled from shore tank 5015 to berth 622
07:15	End of shoreline sample taken
07:30	Result of analysis released
07:45	COMMENCED LOADING
08:10	Suspended loading for foot sampling
08:30	Frist foot samples drawn from cargo tanks C1 and C6
08:55	Result of analysis released
09:05	Resumed loading after foot sampling
11:10	COMPLETED LOADING
11:17	Hose disconnected
11:20	Saybolt on board after operation
12:10	Completed final inspection and calculations, tanks measured and sampled
12:15	Documents on Board
13:04	Barge departed

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Summary Loading (GSV)

Gross Standard Volume Data

GSV Figures	Loaded excl OBQ	Bill of Lading	Δ Quantity	Δ %
Liters 15°C	347,133	347,772	-639	-0.18
Barrels 60°F	2,184.27	2,188.30	-4.03	-0.18
US Gallons 60°F	91,740	91,908	-168	-0.18
Metric Tons Vac	301.901	302.447	-0.546	-0.18
Metric Tons Air	301.530	302.075	-0.545	-0.18
Long Tons Air	296.77	297.30	-0.53	-0.18

GSV Figures (VEF Adjusted)	Loaded adjusted by VEF	Bill of Lading	Δ Quantity	Δ %
Liters 15°C	347,133	347,772	-639	-0.18
Barrels 60°F	2,184.27	2,188.30	-4.03	-0.18

	Density 15°C	Density 20°C	API 60°F	RD 60/60°F	S&W%
Vessel Loaded	0.8697	0.8666	31.10	0.8702	
Bill of Lading	0.8697	0.8666	31.10	0.8702	

General Data

Vessel Loaded Ratio 0.99816

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Bill of Lading date: 12 Jul 2021

Certificate of Quantity

The undersigned Independent Saybolt Surveyor herewith declares that the quantity of product loaded by the above mentioned object amounts to:

	Gross
Liters 15°C	*
Barrels 60°F	*
US Gallons 60°F	*
Metric Tons vac	*
Metric Tons air	
Long Tons	*

* as calculated by Saybolt only.

These quantities have been determined by measurement of shore tanks.	
B/L Dens. 15°C Vac	0.8697
B/L Density 20°C	0.8666
B/L Api 60°F	31.10
B/L RD 60/60°F	0.8702

Additional data	
Loadport	Vlaardingen, Netherlands

Criteria used		
Liters 15°C (1000) to US Barrels 60°F	MPMS 11.5.3 - 4.25	6.292327703
Liters 15°C to US Gallons 60°F	MPMS 11.5.3 - 4.24	0.2642777635
Metric Tons Air to Metric Tons Vac	MPMS 11.5.3 - 4.5	1.001230692
Metric Tons Air to Long Tons	MPMS 11.5 - Annex D	0.9842065

Signed by: Saybolt representative
 Name: A.J. Doornhof
 Rank: Saybolt Inspector

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Bill of Lading date: 12-Jul-2021

Ullage Report Departure

Survey Date and Time

Dens. 15°C Vac

0.8697

Tank	Innage mm	Innage corr mm	TOV Liters	Free water mm	Liters	GOV Liters	Temp °C	VCF table 54D	GSV Liters 15°C
C1	2175		140,731			140,731	28.10	0.99052	139,397
C6	2751		209,695			209,695	27.90	0.99066	207,736
Totals			350,426			350,426			347,133

Summary Totals

On-board figures	OBQ Information	Draft	Correction
GSV Liters 15°C	347,133	FORE m	TRIM m
TCV Liters 15°C	347,133	AFT m	LIST °

On-board figures	Loaded figures
GSV Liters 15°C	347,133
GSV Barrels 60°F	2,184.27
GSV US gallons 60	91,740
MT vac	301.901
MT air	301.530
Kilos air	301,530
LT	296.77

GSV Loaded Ltrs 15°C	347,133	Average Product Temp °C	27.98
GSV Loaded Bbls 60°F	2,184.27		
GSV Loaded US Glns 60°F	91,740		
MT Vac Loaded	301.901		
MT Air Loaded	301.530		
Kilo Air Loaded	301,530		
LT Loaded	296.77		

Signed by: Ship's representative
 Name: Mr D. Straatman
 Rank: Barge Master

Saybolt representative

Saybolt Inspector

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Bill of Lading date: 12-Jul-2021

Shore Tank Report Single

Shore tank 5015 at Vopak Terminal Vlaardingen

Shore tank measurement		Open	Close
Date / Time of measurement		11 Jul 2021 13:57	12 Jul 2021 11:15
Average Innage	mm	VMS	VMS
Average temp.	°C	28.30	28.90
T.O.V.	Liters	1,681,354	1,330,805
G.O.V.	Liters	1,681,354	1,330,805
Dens 15°C	kg/l	0.8697	0.8697
V.C.F.	54D	0.99037	0.98994
G.S.V.	liters 15°C	1,665,094	1,317,322
Main Table 56	MPMS 11.5.3.4.7	0.86860	0.86860
Metric Tons Air		1,446.301	1,144.226

Totals			GSV		NSV
T.O.V.	Liters	350,549	Liters 15°C	347,772	
G.O.V.	Liters	350,549	Barrels 60°F	2,188.30	
			US Gallons 60°F	91,908	
Density 15°C	kg/l	0.8697	Metric Tons Vac	302.447	
RD 60/60°F		0.8702	Metric Tons Air	302.075	
API 60°F		31.10	Long Tons Air	297.30	
Average Temp.	°C	26.02	S&W %		

Tables used: 54D and W.C.F. MPMS 11.5.3.4.7.

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Sample Report

Grade	Description	Sealed	Distribution	Amount	Volume
AP/E Core 150	Shore tank 5015: Running, single tank composite from shore tank before loading	Open	Retain	2	1.0 liters
AP/E Core 150	Shore tank 5015: Dead bottom from shore tank before loading	Open	Retain	1	0.25 liters
AP/E Core 150	End of shoreline 22 before loading	Open	Retain	2	1.0 liters
AP/E Core 150	Tb Orinoco: First foot sample from cargo tanks during loading	Open	Retain	2	1.0 liters
AP/E Core 150	Tb Orinoco: First foot composite	Open	Retain	1	0.25 liters
AP/E Core 150	Tb Orinoco: Running from cargo tanks after loading	Open	Retain	4	1.0 liters
AP/E Core 150	Tb Orinoco: Dead bottom from cargo tanks after loading	Open	Retain	2	0.25 liters
AP/E Core 150	Tb Orinoco: Deck composite after loading	Open	Retain	1	0.25 liters
AP/E Core 150	Loadport samples	Open	Receivers	4	1.0 liters
Total Samples				19	

Information

Samples drawn by	Saybolt Inspector
Shoretank sampling location	Top of tank
Type / condition of sampling containers	Clean plastic bottles
Loadport samples delivered by	Saybolt inspector
received by	Barge master
Loadport sample seal numbers	**

Remarks:

Samples retained by Saybolt will be held for 90 days (unless otherwise specified) at the end of which they shall be disposed of.

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Attention of : ExxonMobil Nwe Scheduler
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Analysis Report

Report number : 12004/00133523.2/L/21 Composite prep date : 13-06-2021
Main Object : Orinoco Place of sampling : Vopak Terminal Vlaardingen
Report Date : 12-07-2021 Date received : 13-06-2021
Date of issue : 13-06-2021 Date completed : 13-06-2021
Sample object : 5015 Sample number : 11724710
Sample type : Composite
Sample submitted as : AP/E Core 150
Marked : Shore tank 5015 single tank composite

NAME	METHOD	UNIT	RESULT
Density at 15 °C	ASTM D 4052	kg/L	0.8697
Appearance	Visual	-	Clear & Bright
Color ASTM	ASTM D 1500	-	L 0.5
CCS Viscosity at -15 °C	ASTM D 5293	mPa.s	1045
Flash Point (COC)	ASTM D 92	°C	214
Kinematic Viscosity at 40 °C	ASTM D 445	mm²/s	30.0
Kinematic Viscosity at 100 °C	ASTM D 445	mm²/s	5.167
Noack Evaporation Loss - Method B	ASTM D 5800	mass %	15.4
Pour Point	ASTM D 5950	°C	-12
Viscosity Index	ASTM D 2270	-	101

Signed by: Corla Lakerveld - Sr Account Manager
Issued by: Saybolt Nederland BV
Place and date of issue: Rotterdam-Botlek - 13-06-2021

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.

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Analysis Report

Report number : 12004/00133523.2/L/21 Date of sampling : 12-07-2021
Main Object : Orinoco Place of sampling : Vopak Terminal Vlaardingen
Report Date : 12-07-2021 Date received : 12-07-2021
Date of issue : 12-07-2021 Date completed : 12-07-2021
Sample object : 22 Sample number : 11850464
Sample type : Sampled
Sample submitted as : AP/E Core 150
Marked : Shore line 22 end of shoreline at jetty 622 before loading into Barge Orinoco

NAME	METHOD	UNIT	RESULT
Appearance	Visual	-	Clear and bright
Kinematic Viscosity at 100 °C	ASTM D 7042	mm²/s	5.190

~ 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: Corla Lakerveld - Sr Account Manager
Issued by: Saybolt Nederland BV
Place and date of issue: Rotterdam-Botlek - 12-07-2021

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Analysis Report

Report number	: 12004/00133523.2/L/21	Date of sampling	: 12-07-2021
Main Object	: Orinoco	Place of sampling	: Vopak Terminal Vlaardingen
Report Date	: 12-07-2021	Date received	: 12-07-2021
Date of issue	: 12-07-2021	Date completed	: 12-07-2021
Sample object	: Orinoco	Sample number	: 11850710
Sample type	: Sampled		
Sample submitted as	: AP/E Core 150		
Marked	: Barge Orinoco first foot sample composite during loading from Shore tank 5015		

NAME	METHOD	UNIT	RESULT
Appearance	Visual	-	Clear and bright
Kinematic Viscosity at 100 °C	ASTM D 7042	mm²/s	5.182

Signed by: Corla Lakerveld - Sr Account Manager
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Main Object	: Orinoco	Place of sampling	: Vopak Terminal Vlaardingen
Report Date	: 12-07-2021	Date received	: 12-07-2021
Date of issue	: 12-07-2021	Date completed	: 12-07-2021
Sample object	: Orinoco	Sample number	: 11851638
Sample type	: Sampled		
Sample submitted as	: AP/E Core 150		
Marked	: Barge Orinoco deck composite after loading from Shore tank 5015		

NAME	METHOD	UNIT	RESULT
Appearance	Visual	-	Clear & Bright
Kinematic Viscosity at 100 °C	ASTM D 7042	mm²/s	5.185

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