

EXXONMOBIL PETROLEUM & CHEMICAL BV
RU 2235
POLDERDIJKWEG 3
B-2030 ANTWERPEN
Belgium
ExxonMobil Scheduler
AF21088



Job No 12004/00132042.0000/01/I/21
Report date 18 May 2021
Installation Vlaardingen, Netherlands, Vopak Terminal Vlaardingen

Vessel CETO
Product AP/E Core 2500

Bill of Lading date: 18-May-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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This report consists of 9 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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Product AP/E Core 2500

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	599.394	
Bill of Lading date		18 May 2021	
Average product temperature onboard	°C	51.65	
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)		2037	
Vessel data			
Cargo stowed in cargo tanks		P3, Slop P, Slop S	
Type of standpipes of vessel tanks		Unslotted	
Vessel tank measurement were carried out with		Vessel/barge equipment/ATG	by UTI
Vessel tank measurement equipment used		30346	
Vessel tank temperatures were carried out with		Vessel/barge equipment/ATG	by UTI
Vessel tank temperature equipment number		30346	
Operational data			
Quality has been determined by		Shore	
Special Circumstances			

As agreed by all stakeholders of the base oil project at Vopak Vlaardingen, all shore tank measurements are to be determined by Vms as per the standard working conditions at Vopak Vlaardingen. The HTG (VMS) measurements will be binding

In cases where a ship/shore difference of > 0.2% is observed Saybolt will issue a Lop to all parties in regard to these differences. Differences of >0.5% will trigger a manual verification of shore tank and a recheck of the barge/vessel measurements

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Time Log

12 May 2021 (Wednesday)	
12:00	End of Sea Passage
12:05	Notice of Readiness Tendered
12:48	Anchor Down
18 May 2021 (Tuesday)	
03:48	Pilot on Board
04:06	Anchor Up
06:06	First Line Ashore
06:30	Moored Alongside Berth (All Fast) 624
06:35	Notice of Readiness Received
06:40	Gangway in Place
07:15	Saybolt onboard before Operation
07:30	Commenced Initial Inspection
07:45	Completed Initial Inspection, Tank(s) Inspected and Accepted
08:10	Key Meeting
09:15	Analysis shore tank released
09:51	Hose / Arm Connected
10:31	Commenced filling shoreline 32
10:40	Completed filling shoreline 32
10:41	Shoreline sample taken
11:15	Shoreline released (analysis)
12:05	COMMENCED LOADING
12:06	Manifold sample taken
12:25	Suspended Loading for First Foot Sampling
12:35	Commenced First Foot Sampling
12:55	Completed First Foot Sampling
13:30	Analysis foot sample released
13:44	Resumed Loading after First Foot Sampling
19:40	COMPLETED LOADING
19:55	Saybolt onboard after Operation
20:00	Hose / Arm Disconnected
20:00	Commenced Final Inspection
20:45	Completed Final Inspection and Calculations, Tank(s) Measured and Sampled
20:50	Documents on Board
23:45	Object Sailed / Departed

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Vessel CETO
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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	667,102	666,883	219	0.03
Barrels 60°F	4,197.58	4,196.20	1.38	0.03
US Gallons 60°F	176,298	176,241	57	0.03
Metric Tons Vac	600.328	600.104	0.224	0.04
Metric Tons Air	599.618	599.394	0.224	0.04
Long Tons Air	590.15	589.93	0.22	0.04

GSV Figures (VEF Adjusted)	Loaded adjusted by VEF	Bill of Lading	Δ Quantity	Δ %
Liters 15°C	667,102	666,883	219	0.03
Barrels 60°F	4,197.58	4,196.20	1.38	0.03

	Density 15°C	Density 20°C	API 60°F	RD 60/60°F	S&W%
Vessel Loaded	0.8999	0.8968	25.65	0.9004	
Bill of Lading	0.8999	0.8968	25.65	0.9004	

General Data

Vessel Loaded Ratio 1.00033

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Vessel CETO
Product AP/E Core 2500

Bill of Lading date: 18-May-2021

Sample Report

Grade	Description	Sealed	Distribution	Amount	Volume
AP/E Core 2500	Shore tank 2037:Running from shore tank before loading	Open	Retain	1	1.0 liters
AP/E Core 2500	Shore tank 2037:Dead bottom from shore tank before loading	Open	Retain	1	0.25 liters
AP/E Core 2500	End of shoreline near jetty at jetty before loading	Open	Retain	1	1.0 liters
AP/E Core 2500	TV CETO:Manifold at loading arm before loading	Open	Retain	1	1.0 liters
AP/E Core 2500	TV CETO:Foot from barge tanks during loading	Open	Retain	3	1.0 liters
AP/E Core 2500	TV CETO:Foot composite from barge tanks during loading	Open	Retain	1	1.0 liters
AP/E Core 2500	End of shoreline near jetty at jetty during loading	Open	Retain	1	1.0 liters
AP/E Core 2500	TV CETO:Running from ships tanks after loading	Open	Retain	6	1.0 liters
AP/E Core 2500	TV CETO:Dead bottom from ships tanks after loading	Open	Retain	3	0.25 liters
AP/E Core 2500	TV CETO:Deck-composite from ships tanks after loading	Open	Retain	1	1.0 liters
AP/E Core 2500	Shore tank 2037:Running from shore tank before loading	Open	Receivers	1	1.0 liters
AP/E Core 2500	End of shoreline near jetty at jetty before loading	Open	Receivers	1	1.0 liters
AP/E Core 2500	TV CETO:Foot composite from barge tanks during loading	Open	Receivers	1	1.0 liters
AP/E Core 2500	TV CETO:Deck-composite from ships tanks after loading	Open	Receivers	1	1.0 liters
Total Samples				23	

Vessel's samples were taken using vessel's closed sampling system.

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
received by	Vessel
Loadport sample seal numbers	See list

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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Vessel CETO
Product AP/E Core 2500

Bill of Lading date: 18-May-2021

Shore Tank Report Single

Shore tank 2037 at Vopak Terminal Vlaardingen

Shore tank measurement		Open	Close
Date / Time of measurement		18 May 2021 04:59	18 May 2021 19:31
Average Innage	mm	VMS	VMS
Average temp.	°C	54.10	54.40
T.O.V.	Liters	2,300,026	1,614,747
G.O.V.	Liters	2,300,026	1,614,747
Dens 15°C	kg/l	0.8999	0.8999
V.C.F.	54D	0.97251	0.97230
G.S.V.	liters 15°C	2,237,075	1,570,192
Main Table 56	MPMS 11.5.3.4.7	0.89880	0.89880
Metric Tons Air		2,010.683	1,411.289

Totals		GSV	NSV
T.O.V.	Liters	685,279	Liters 15°C 666,883
G.O.V.	Liters	685,279	Barrels 60°F 4,196.20
			US Gallons 60°F 176,241
Density 15°C	kg/l	0.8999	Metric Tons Vac 600.104
RD 60/60°F		0.9004	Metric Tons Air 599.394
API 60°F		25.65	Long Tons Air 589.93

Average Temp. °C 53.39

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

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Vessel CETO
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Bill of Lading Date: 18-May-2021

Tank Inspection Report

Information supplied by ship's officers or ship's log cannot be guaranteed as accurate and no liability can be assumed for errors that result from improper information supplied. The responsibility for such information must rest with the ship and her officers.

Date of 18 May 2021
Inspection:
Time of 07:45
Inspection:

For Previous Cargoes, see "Ship's Tank History Report"

Ship's tanks inspected:

Tanks	Last Cargo	Cleaning	Coating
P3	FAME	BW 60min Amb SW, BW 120min Hot SW, Recirc 120min Hot SW with Cleaner, Rinse 180min Hot SW, Flush 30min FW, Drain/Vent/Mopp/Dry	Marine Line for all tanks
Slop P	Toluene	BW 60min Amb SW, BW 60min Hot SW, Flush 30min FW, Drain/Vent/Mopp/Dry	
Slop S	GTL BO3	BW 90min Warm SW, BW 180min Hot SW, Recirc 240min Hot SW with Cleaner, Rinse 180min Hot SW, Flush 30min FW, Drain/Vent/Mopp/Dry	

This is to advise that on the above date we carried out a visual inspection from decklevel of the following tanks: P3, Slop P, Slop S.

From such visual inspection, and from information as supplied by ship's officers, we consider that said tanks are substantially suitable to load the nominated cargo.

Whilst every effort has been made to comply with tank inspection instructions we cannot be held responsible for those areas beyond visual inspection (such as pumps, lines) and/or the effectiveness of advised tank cleaning methods.

Note: Due to the nature of the cargo to be loaded and the previous cargo(es) carried by the vessel, commencement of loading this cargo is depending on permission obtained from the principal(s). It may be necessary that 'First Foot' samples are drawn and checked for quality.

Sea-valves sealed and numbered:

Signed by: Ship's representative
Name: G. Tufekci
Rank: Chief Officer

Saybolt representative
T. Langmaire
Saybolt Inspector

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Vessel CETO
Product AP/E Core 2500

Bill of Lading date: 18-May-2021

History Report

Information supplied by ship's officers or ship's log cannot be guaranteed as accurate and no liability can be assumed for errors that result from improper information supplied.

The responsibility for such information must rest with the ship and her officers.

Tank Nr	Last Cargo	2nd Last Cargo	3rd Last Cargo	Coating
P3	FAME	Toluene	Acetone	Marine Line for all tanks
Slop P	Toluene	GTL BO3	Hyblene	
Slop S	GTL BO3	Hyblene	GTL BO3	

Tank(s) cleaned P3
Method of cleaning BW 60min Amb SW, BW 120min Hot SW, Recirc 120min Hot SW with Cleaner, Rinse 180min Hot SW, Flush 30min FW, Drain/Vent/Mopp/Dry
Ship's lines to be used
Method of line cleaning

Tank(s) cleaned Slop P
Method of cleaning BW 60min Amb SW, BW 60min Hot SW, Flush 30min FW, Drain/Vent/Mopp/Dry
Ship's lines to be used
Method of line cleaning

Tank(s) cleaned Slop S
Method of cleaning BW 90min Warm SW, BW 180min Hot SW, Recirc 240min Hot SW with Cleaner, Rinse 180min Hot SW, Flush 30min FW, Drain/Vent/Mopp/Dry
Ship's lines to be used
Method of line cleaning

Signed by: Ship's representative
Name: G. Tufekci
Rank: Chief Officer

Saybolt representative
T. Langmaire
Saybolt Inspector

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Vessel CETO
Product AP/E Core 2500

Bill of Lading date: 18-May-2021

Ullage Report Departure

Survey Date and Time 18 May 2021 20:37

Dens. 15°C Vac

0.8999

Tank	ullage mm	ullage corr mm	TOV Liters	Free water mm	Liters	GOV Liters	Temp °C	VCF table 54D	GSV Liters 15°C
P3	1595		593,907			593,907	52.60	0.97357	578,210
Slop P	1865		45,610			45,610	45.70	0.97845	44,627
Slop S	1875		45,224			45,224	45.20	0.97880	44,265
Totals			684,741			684,741			667,102

Summary Totals

On-board figures	OBQ Information	Draft	Correction
GSV Liters 15°C	667,102	FORE m	3.90 TRIM m
TCV Liters 15°C	667,102	AFT m	5.30 LIST °

On-board figures	Loaded figures
GSV Liters 15°C	667,102
GSV Barrels 60°F	4,197.58
GSV US gallons 60	176,298
MT vac	600.328
MT air	599.618
Kilos air	599,618
LT	590.15

Equipment used	
Gauge Equipment Type	Vessel/barge equipment/ATG
Gauge Equipment Used	UTI
Gauge Equipment number	30346

Signed by: Ship's representative
Name: G. Tufekci
Rank: Chief Officer

Saybolt representative
Y. de Haan
Saybolt Inspector

Measurements in accordance with API standards.

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Website: www.saybolt.com E-mail: saybolt@corelab.com

Date: 18 May 2021 23:54
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Attention of : ExxonMobil Scheduler
Your reference : AF21088

Analysis Report

Report number	: 12004/00132042.2/L/21	Composite prep date	: 17-05-2021
Main Object	: CETO	Place of sampling	: Vopak Terminal Vlaardingen
Report Date	: 19-05-2021	Date received	: 17-05-2021
Date of issue	: 18-05-2021	Date completed	: 18-05-2021
Sample object	: 2037	Sample number	: 11604174
Sample type	: Composite		
Sample submitted as	: AP/E Core 2500		
Marked	: Shore tank 2037 single tank composite		

NAME	METHOD	UNIT	RESULT
Density at 15 °C	ASTM D 4052	kg/L	0.8999
Appearance	Visual	-	Clear and bright
Color ASTM	ASTM D 1500	-	L 5.0
Flash Point (COC)	ASTM D 92	°C	307
Kinematic Viscosity at 40 °C	ASTM D 445	mm ² /s	498.5
Kinematic Viscosity at 100 °C	ASTM D 445	mm ² /s	32.0
Pour Point	ASTM D 5950	°C	-6
Viscosity Index	ASTM D 2270	-	95

Signed by: Corla Lakerveld - Sr Account Manager
Issued by: Saybolt Nederland BV
Place and date of issue: Rotterdam-Botlek - 18-05-2021

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	: 12004/00132042.2/L/21	Date of sampling	: 18-05-2021
Main Object	: CETO	Place of sampling	: Vopak Terminal Vlaardingen
Report Date	: 19-05-2021	Date received	: 18-05-2021
Date of issue	: 19-05-2021	Date completed	: 18-05-2021
Sample object	: 32	Sample number	: 11607546
Sample type	: Sampled		
Sample submitted as	: AP/E Core 2500		
Marked	: Shore line 32 end of shoreline at jetty 624 before loading into Vessel CETO		

NAME	METHOD	UNIT	RESULT
Appearance	Visual	-	Clear & Bright
Kinematic Viscosity at 40 °C	ASTM D 7042	mm²/s	501.4

~ 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
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Analysis Report

Report number : 12004/00132042.2/L/21 Date of sampling : 18-05-2021
Main Object : CETO Place of sampling : Vopak Terminal Vlaardingen
Report Date : 19-05-2021 Date received : 18-05-2021
Date of issue : 19-05-2021 Date completed : 18-05-2021
Sample object : CETO Sample number : 11608159
Sample type : Sampled
Sample submitted as : AP/E Core 2500
Marked : Vessel CETO first foot sample Composite during loading from Shore tank 2037

NAME	METHOD	UNIT	RESULT
Appearance	Visual	-	Clear & Bright
Kinematic Viscosity at 40 °C	ASTM D 7042	mm²/s	501.4

Signed by: Corla Lakerveld - Sr Account Manager
Issued by: Saybolt Nederland BV
Place and date of issue: Rotterdam-Botlek - 19-05-2021

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Analysis Report

Report number : 12004/00132042.2/L/21 Submitted date : 18-05-2021
Main Object : CETO Sample submitted at : Vopak Terminal Vlaardingen
Report Date : 19-05-2021 Date received : 18-05-2021
Date of issue : 19-05-2021 Date completed : 18-05-2021
Sample object : CETO Sample number : 11610099
Sample type : Submitted
Sample submitted as : AP/E Core 2500
Marked : Vessel CETO deck composite after loading from Shore tank 2037

NAME	METHOD	UNIT	RESULT
Appearance	Visual	-	Clear & Bright
Kinematic Viscosity at 40 °C	ASTM D 7042	mm²/s	501.5

Signed by: Corla Lakerveld - Sr Account Manager
Issued by: Saybolt Nederland BV
Place and date of issue: Rotterdam-Botlek - 19-05-2021

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