

EXXONMOBIL PETROLEUM & CHEMICAL BV  
RU 2235  
POLDERDIJKWEG 3  
B-2030 ANTWERPEN  
Belgium  
ExxonMobil Scheduler  
AF20285



Job No 12004/00127295.0000/01/I/20  
Report date 13 Nov 2020  
Installation Vlaardingen, Netherlands, Vopak Terminal Vlaardingen

**Vessel HAWVA ANA**  
**Product AP/E Core 150, AP/E Core 2500**

**Contents page**

Outturn date: 11 Nov 2020, 13 Nov 2020

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

Title	Number of Pages
Contents page	one
Cover Page Discharge	two
Time Log	two
Summary Discharge (GSV)	two
Sample Report	two
Shore Tank Report Single	six
Ullage Report Arrival	two
Ullage Report LoadPort	two
Bill Of Lading Report	two
Vessel Experience Report	one

This report consists of 22 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: Leonie Snoek

*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.*

EXXONMOBIL PETROLEUM & CHEMICAL BV  
 RU 2235  
 POLDERDIJKWEG 3  
 B-2030 ANTWERPEN  
 Belgium  
 ExxonMobil Scheduler  
 AF20285



Job No 12004/00127295.0000/01/I/20  
 Report date 13 Nov 2020  
 Installation Vlaardingen, Netherlands, Vopak Terminal Vlaardingen

**Vessel HAWVA ANA**  
**Product AP/E Core 2500**

## Cover Page Discharge

### Discharge data

Quantity data		
Outturn is based on:		Shore tank measurements
Outturn date		13 Nov 2020
Loadport		Augusta Italy
B/L Date		01 Nov 2020
Average product temperature onboard	°C	51.98
Calculation data		
Shore tank Volume conversion table used		54D
Vessel Volume conversion table used		54D
Shore data		
Discharge Installation		Vopak Terminal Vlaardingen
Shore tank number(s)		2038, 2039, 6505, 2037
Type of Standpipe of shore tank(s)		See Shore tank details report for data
Shore tank measurements were carried out with		Shore equipment/ATGby Automatic Tank Gauge
Shore tank temperatures were carried out with		Shore equipment/ATGby Automatic Tank Temperature
Vessel data		
Cargo stowed in cargo tanks		P3, S3, P5, S5, P6, S6, P8, S8
Type of standpipes of vessel tanks		Slotted
Vessel tank measurement were carried out with		Vessel/barge equipment/ATGby UTI
Vessel tank measurement equipment number		TFC 825551
Vessel tank temperatures were carried out with		Vessel/barge equipment/ATGby UTI
Vessel tank temperature equipment number		TFC 825551
Sea Condition		Calm (rippled) - 0 to 0.1 m (0.00 to 0.33 ft)
Weather condition		Cloudy
Operational data		
Ambient outside temperature at discharge		10.00

EXXONMOBIL PETROLEUM & CHEMICAL BV  
 RU 2235  
 POLDERDIJKWEG 3  
 B-2030 ANTWERPEN  
 Belgium  
 ExxonMobil Scheduler  
 AF20285



Job No 12004/00127295.0000/01/I/20  
 Report date 13 Nov 2020  
 Installation Vlaardingen, Netherlands, Vopak Terminal Vlaardingen

**Vessel HAWVA ANA**  
**Product AP/E Core 150**

## Cover Page Discharge

### Discharge data

Quantity data		
Outturn is based on:	Shore tank measurements	
Outturn date	11 Nov 2020	
Loadport	Augusta Italy	
B/L Date	01 Nov 2020	
Average product temperature onboard	°C	31.59
Calculation data		
Shore tank Volume conversion table used	54D	
Vessel Volume conversion table used	54D	
Shore data		
Discharge Installation	Vopak Terminal Vlaardingen	
Shore tank number(s)	5015, 5016	
Type of Standpipe of shore tank(s)	Slotted	
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, P2, S2, P4, S4, P7, S7	
Type of standpipes of vessel tanks	Slotted	
Vessel tank measurement were carried out with	Vessel/barge equipment/ATG	by UTI
Vessel tank measurement equipment number	TFC 825551	
Vessel tank temperatures were carried out with	Vessel/barge equipment/ATG	by UTI
Vessel tank temperature equipment number	TFC 825551	
Sea Condition	Calm (rippled) - 0 to 0.1 m (0.00 to 0.33 ft)	
Weather condition	Cloudy	
Operational data		
Ambient outside temperature at discharge	10.00	

EXXONMOBIL PETROLEUM & CHEMICAL BV  
 RU 2235  
 POLDERDIJKWEG 3  
 B-2030 ANTWERPEN  
 Belgium  
 ExxonMobil Scheduler  
 AF20285



Job No 12004/00127295.0000/01/I/20  
 Report date 13 Nov 2020  
 Installation Vlaardingen, Netherlands, Vopak Terminal Vlaardingen

**Vessel HAWA ANA**  
**Product AP/E Core 150**

## Time Log

Outturn date: 11 Nov 2020, 13 Nov 2020

10 Nov 2020 (Tuesday)	
19:12	End of Sea Passage
19:13	Notice of Readiness Tendered
19:14	Pilot on Board
21:48	First Line Ashore
22:18	Notice of Readiness Received
22:18	Moored Alongside Berth 624 (All Fast)
22:30	Gangway in Place
22:35	Saybolt onboard before Operation
22:44	Key Meeting
22:45	Commenced Initial Inspection
11 Nov 2020 (Wednesday)	
00:15	Arm Connected
00:30	Completed Initial Inspection and Calculations, Tank(s) Measured and Sampled
00:35	Manifold sample taken
03:10	Analysis released
03:34	COMMENCED DISCHARGE, into shore tank 5015
03:46	Completed filling shoreline 25
03:50	Line sample taken
04:10	Analyses shoreline released
04:21	Resumed Discharge
14:28	Completed discharge into shore tank 5015
15:35	Commenced discharge into shore tank 5016
18:45	COMPLETED DISCHARGE
19:20	Arm Disconnected
13 Nov 2020 (Friday)	
03:00	Saybolt onboard after Operation
03:05	Commenced Final Inspection
03:30	Completed Final Inspection and Calculations, Tank(s) Inspected on Emptiness
03:35	Documents on Board
06:10	Object Sailed / Departed

EXXONMOBIL PETROLEUM & CHEMICAL BV  
 RU 2235  
 POLDERDIJKWEG 3  
 B-2030 ANTWERPEN  
 Belgium  
 ExxonMobil Scheduler  
 AF20285



Job No 12004/00127295.0000/01/I/20  
 Report date 13 Nov 2020  
 Installation Vlaardingen, Netherlands, Vopak Terminal Vlaardingen

**Vessel HAWA ANA**  
**Product AP/E Core 2500**

## Time Log

Outturn date: 11 Nov 2020, 13 Nov 2020

10 Nov 2020 (Tuesday)	
19:12	End of Sea Passage
19:13	Notice of Readiness Tendered
19:14	Pilot on Board
21:48	First Line Ashore
22:18	Notice of Readiness Received
22:18	Moored Alongside Berth 624 (All Fast)
22:30	Gangway in Place
22:35	Saybolt onboard before Operation
22:44	Key Meeting
22:45	Commenced Initial Inspection
11 Nov 2020 (Wednesday)	
00:25	Arm Connected
00:30	Completed Initial Inspection and Calculations, Tank(s) Measured and Sampled
00:31	Manifold sample taken
01:45	Analysis released
02:50	COMMENCED DISCHARGE
03:25	Suspended discharge for foot sampling sht.6505
03:45	Foot sample taken sht.6505
04:05	Analyses foot sample released sht.6505
04:27	Resumed Discharge
08:21	Completed discharge into shore tank 6505
08:40	Commenced discharge into shore tank 2037
12 Nov 2020 (Thursday)	
02:02	Completed discharge into shore tank 2037
02:07	Commenced discharge into shore tank 2038
08:00	Completed discharge into shore tank 2038
08:10	Commenced discharge into shore tank 2039
13 Nov 2020 (Friday)	
02:55	COMPLETED DISCHARGE
03:00	Saybolt onboard after Operation
03:05	Commenced Final Inspection
03:30	Completed Final Inspection and Calculations, Tank(s) Inspected on Emptiness
03:35	Documents on Board
03:45	Arm Disconnected
06:10	Object Sailed / Departed

EXXONMOBIL PETROLEUM & CHEMICAL BV  
 RU 2235  
 POLDERDIJKWEG 3  
 B-2030 ANTWERPEN  
 Belgium  
 ExxonMobil Scheduler  
 AF20285



Job No 12004/00127295.0000/01/I/20  
 Report date 13 Nov 2020  
 Installation Vlaardingen, Netherlands, Vopak Terminal Vlaardingen

**Vessel HAWVA ANA**  
**Product AP/E Core 2500**

Outturn date: 13 Nov 2020

## Summary Discharge (GSV)

### Gross Standard Volume Data

GSV Figures	Loadport Incl OBQ	Disport Incl ROB	Δ Quantity	Δ %
Liters 15°C	4,462,806	4,463,897	1,091	0.02
Barrels 60°F	28,081.16	28,088.02	6.86	0.02
US Gallons 60°F	1,179,409	1,179,697	288	0.02
Metric Tons Vac	4,009.406	4,010.386	0.980	0.02
Metric Tons Air	4,004.654	4,005.633	0.979	0.02
Long Tons Air	3,941.41	3,942.37	0.96	0.02

GSV Figures	Loadport Excl OBQ	Disport Excl ROB	Δ Quantity	Δ %
Liters 15°C	4,462,806	4,463,897	1,091	0.02
Barrels 60°F	28,081.16	28,088.02	6.86	0.02
US Gallons 60°F	1,179,409	1,179,697	288	0.02
Metric Tons Vac	4,009.406	4,010.386	0.980	0.02
Metric Tons Air	4,004.654	4,005.633	0.979	0.02
Long Tons Air	3,941.41	3,942.37	0.96	0.02

GSV Figures	Bill of Lading	Shore receipt	Δ Quantity	Δ %
Liters 15°C	4,475,700	4,477,751	2,051	0.05
Barrels 60°F	28,162.29	28,175.20	12.91	0.05
US Gallons 60°F	1,182,816	1,183,358	542	0.05
Metric Tons Vac	4,020.712	4,018.595	-2.117	-0.05
Metric Tons Air	4,015.947	4,013.826	-2.121	-0.05
Long Tons Air	3,952.52	3,950.44	-2.08	-0.05

	Density 15°C	Density 20°C	API 60°F	RD 60/60°F	S&W%
Vessel Discharged	0.8984		25.91	0.8989	
Bill of Lading	0.8984	0.8953	25.91	0.8989	
Shore Receipt	0.8975	0.8944	26.07	0.8980	

### General Data

Vessel Experience Factor Based on 2nd average	0.9980
Loadport	Augusta Italy

EXXONMOBIL PETROLEUM & CHEMICAL BV  
 RU 2235  
 POLDERDIJKWEG 3  
 B-2030 ANTWERPEN  
 Belgium  
 ExxonMobil Scheduler  
 AF20285



Job No 12004/00127295.0000/01/I/20  
 Report date 13 Nov 2020  
 Installation Vlaardingen, Netherlands, Vopak Terminal Vlaardingen

**Vessel HAWVA ANA**  
**Product AP/E Core 150**

Outturn date: 11 Nov 2020

## Summary Discharge (GSV)

### Gross Standard Volume Data

GSV Figures	Loadport Incl OBQ	Disport Incl ROB	Δ Quantity	Δ %
Liters 15°C	3,470,352	3,473,079	2,727	0.08
Barrels 60°F	21,836.59	21,853.75	17.16	0.08
US Gallons 60°F	917,137	917,858	721	0.08
Metric Tons Vac	3,018.162	3,020.534	2.372	0.08
Metric Tons Air	3,014.452	3,016.821	2.369	0.08
Long Tons Air	2,966.84	2,969.17	2.33	0.08

GSV Figures	Loadport Excl OBQ	Disport Excl ROB	Δ Quantity	Δ %
Liters 15°C	3,470,352	3,473,079	2,727	0.08
Barrels 60°F	21,836.59	21,853.75	17.16	0.08
US Gallons 60°F	917,137	917,858	721	0.08
Metric Tons Vac	3,018.162	3,020.534	2.372	0.08
Metric Tons Air	3,014.452	3,016.821	2.369	0.08
Long Tons Air	2,966.84	2,969.17	2.33	0.08

GSV Figures	Bill of Lading	Shore receipt	Δ Quantity	Δ %
Liters 15°C	3,488,730	3,480,663	-8,067	-0.23
Barrels 60°F	21,952.23	21,901.47	-50.76	-0.23
US Gallons 60°F	921,994	919,862	-2,132	-0.23
Metric Tons Vac	3,033.975	3,027.324	-6.651	-0.22
Metric Tons Air	3,030.246	3,023.603	-6.643	-0.22
Long Tons Air	2,982.39	2,975.85	-6.54	-0.22

	Density 15°C	Density 20°C	API 60°F	RD 60/60°F	S&W%
Vessel Discharged	0.8697		31.10	0.8702	
Bill of Lading	0.8697	0.8666	31.10	0.8702	
Shore Receipt	0.8698	0.8667	31.09	0.8703	

### General Data

Vessel Experience Factor Based on 2nd average 0.9980  
 Loadport Augusta Italy

EXXONMOBIL PETROLEUM & CHEMICAL BV  
 RU 2235  
 POLDERDIJKWEG 3  
 B-2030 ANTWERPEN  
 Belgium  
 ExxonMobil Scheduler  
 AF20285



Job No 12004/00127295.0000/01/I/20  
 Report date 13 Nov 2020  
 Installation Vlaardingen, Netherlands, Vopak Terminal Vlaardingen

**Vessel HAVVA ANA**  
**Product AP/E Core 150**

Outturn date: 11 Nov 2020

## Sample Report

Grade	Description	Sealed	Distribution	Amount	Volume
AP/E Core 150	Shore tank 5015 / 5016:Running from shore tank before discharge	Open	Retain	2	1.0 liters
AP/E Core 150	Shore tank 5015 / 5016:Dead bottom from shore tank before discharge	Open	Retain	2	0.25 liters
AP/E Core 150	TV HAVVA ANA:Lower from ships tanks before discharge	Open	Retain	7	1.0 liters
AP/E Core 150	TV HAVVA ANA:Dead bottom from ships tanks before discharge	Open	Retain	7	0.25 liters
AP/E Core 150	TV HAVVA ANA:Deck-composite from ships tanks before discharge	Open	Retain	1	1.0 liters
AP/E Core 150	TV HAVVA ANA:Manifold at loading arm before discharge	Open	Retain	1	1.0 liters
AP/E Core 150	TV HAVVA ANA:Loadport from ships tanks after loading	Open	Retain	4	1.0 liters
AP/E Core 150	End of shoreline near tank near tank during discharge	Open	Retain	1	1.0 liters
AP/E Core 150	Shore tank 5015 / 5016:Upper, middle, lower from shore tank after discharge	Open	Retain	6	1.0 liters
AP/E Core 150	Shore tank 5015 / 5016:Dead bottom from shore tank after discharge	Open	Retain	2	0.25 liters
AP/E Core 150	Shore tank 5015 / 5016:Single tank composite from shore tank after discharge	Open	Retain	2	1.00 liters
<b>Total Samples</b>				<b>35</b>	

### Information

Samples drawn by	Saybolt Inspector
Shoretank sampling location	Top of tank
Type / condition of sampling containers	Clean plastic bottles
Loadport samples delivered by	Vessel
received by	Saybolt

### Remarks:

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



EXXONMOBIL PETROLEUM & CHEMICAL BV  
 RU 2235  
 POLDERDIJKWEG 3  
 B-2030 ANTWERPEN  
 Belgium  
 ExxonMobil Scheduler  
 AF20285



Job No 12004/00127295.0000/01/I/20  
 Report date 13 Nov 2020  
 Installation Vlaardingen, Netherlands, Vopak Terminal Vlaardingen

**Vessel HAVVA ANA**  
**Product AP/E Core 2500**

Outturn date: 13 Nov 2020

## Sample Report

Grade	Description	Sealed	Distribution	Amount	Volume
AP/E Core 2500	Shore tank 2037 / 2038 / 2039:Running from shore tank before discharge	Open	Retain	3	1.0 liters
AP/E Core 2500	Shore tank 2037 / 2038 / 2039:Dead bottom from shore tank before discharge	Open	Retain	3	0.25 liters
AP/E Core 2500	TV HAVVA ANA:Lower from ships tanks before discharge	Open	Retain	8	1.0 liters
AP/E Core 2500	TV HAVVA ANA:Dead bottom from ships tanks before discharge	Open	Retain	8	0.25 liters
AP/E Core 2500	TV HAVVA ANA:Deck-composite from ships tanks before discharge	Open	Retain	1	1.0 liters
AP/E Core 2500	TV HAVVA ANA:Manifold at loading arm before discharge	Open	Retain	1	1.0 liters
AP/E Core 2500	TV HAVVA ANA:Loadport from ships tanks after loading	Open	Retain	4	1.0 liters
AP/E Core 2500	Shore tank 6505:Foot from shore tank during discharge	Open	Retain	1	1.0 liters
AP/E Core 2500	Shore tank 2037 / 2038 / 2039 / 6505 :Upper, middle, lower from shore tank after discharge	Open	Retain	12	1.0 liters
AP/E Core 2500	Shore tank 2037 / 2038 / 2039 / 6505:Dead bottom from shore tank after discharge	Open	Retain	4	0.25 liters
AP/E Core 2500	Shore tank 2037 / 2038 / 2039 / 6505:Single tank comp from shore tank after discharge	Open	Retain	4	1.0 liters
<b>Total Samples</b>				<b>49</b>	

### Information

Samples drawn by	Saybolt Inspector
Shoretank sampling location	Top of tank
Type / condition of sampling containers	Clean plastic bottles
Loadport samples delivered by	Vessel
received by	Saybolt

### Remarks:

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

EXXONMOBIL PETROLEUM & CHEMICAL BV  
 RU 2235  
 POLDERDIJKWEG 3  
 B-2030 ANTWERPEN  
 Belgium  
 ExxonMobil Scheduler  
 AF20285



Job No 12004/00127295.0000/01/I/20  
 Report date 13 Nov 2020  
 Installation Vlaardingen, Netherlands, Vopak Terminal Vlaardingen

**Vessel HAWVA ANA**  
**Product AP/E Core 150**

Outturn date: 11 Nov 2020

## Shore Tank Report Single

### Shore tank 5015 at Vopak Terminal Vlaardingen

Shore tank measurement		Open	Close
Date / Time of measurement		10 Nov 2020 19:48	12 Nov 2020 07:19
Average Innage	mm	VMS	VMS
Average temp.	°C	19.80	27.00
T.O.V.	Liters	274,238	3,096,506
G.O.V.	Liters	274,238	3,096,506
Dens 15°C	kg/l	0.8710	0.8699
V.C.F.	54D	0.99654	0.99132
G.S.V.	liters 15°C	273,292	3,069,419
Main Table 56	MPMS 11.5.3.4.7	0.86990	0.86880
Metric Tons Air		237.737	2,666.711

Totals			GSV		NSV
T.O.V.	Liters	2,822,268	Liters 15°C	2,796,127	
G.O.V.	Liters	2,822,268	Barrels 60°F	17,594.15	
			US Gallons 60°F	738,954	
Density 15°C	kg/l	0.8698	Metric Tons Vac	2,431.963	
RD 60/60°F		0.8703	Metric Tons Air	2,428.974	
API 60°F		31.09	Long Tons Air	2,390.61	

Average Temp. °C 27.70

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

EXXONMOBIL PETROLEUM & CHEMICAL BV  
 RU 2235  
 POLDERDIJKWEG 3  
 B-2030 ANTWERPEN  
 Belgium  
 ExxonMobil Scheduler  
 AF20285



Job No 12004/00127295.0000/01/I/20  
 Report date 13 Nov 2020  
 Installation Vlaardingen, Netherlands, Vopak Terminal Vlaardingen

**Vessel HAWVA ANA**  
**Product AP/E Core 150**

Outturn date: 11 Nov 2020

## Shore Tank Report Single

### Shore tank 5016 at Vopak Terminal Vlaardingen

Shore tank measurement		Open	Close
Date / Time of measurement		10 Nov 2020 15:37	12 Nov 2020 07:49
Average Innage	m m	VMS	VMS
Average temp.	°C	19.30	25.30
T.O.V.	Liters	279,656	970,586
G.O.V.	Liters	279,656	970,586
Dens 15°C	kg/l	0.8699	0.8698
V.C.F.	54D	0.99689	0.99255
G.S.V.	liters 15°C	278,787	963,323
Main Table 56	MPMS 11.5.3.4.7	0.86880	0.86870
Metric Tons Air		242.210	836.839

Totals		GSV	NSV
T.O.V.	Liters	690,930	Liters 15°C 684,536
G.O.V.	Liters	690,930	Barrels 60°F 4,307.32
			US Gallons 60°F 180,908
Density 15°C	kg/l	0.8698	Metric Tons Vac 595.361
RD 60/60°F		0.8703	Metric Tons Air 594.629
API 60°F		31.09	Long Tons Air 585.24

Average Temp. °C 27.73

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

EXXONMOBIL PETROLEUM & CHEMICAL BV  
 RU 2235  
 POLDERDIJKWEG 3  
 B-2030 ANTWERPEN  
 Belgium  
 ExxonMobil Scheduler  
 AF20285



Job No 12004/00127295.0000/01/I/20  
 Report date 13 Nov 2020  
 Installation Vlaardingen, Netherlands, Vopak Terminal Vlaardingen

**Vessel HAWVA ANA**  
**Product AP/E Core 2500**

Outturn date: 13 Nov 2020

## Shore Tank Report Single

### Shore tank 2037 at Vopak Terminal Vlaardingen

Shore tank measurement		Open	Close
Date / Time of measurement		10 Nov 2020 19:43	13 Nov 2020 08:27
Average Innage	mm	VMS	VMS
Average temp.	°C	54.10	56.10
T.O.V.	Liters	294,692	2,296,965
G.O.V.	Liters	294,692	2,296,965
Dens 15°C	kg/l	0.8994	0.8977
V.C.F.	54D	0.97249	0.97102
G.S.V.	liters 15°C	286,621	2,238,043
Main Table 56	MPMS 11.5.3.4.7	0.89830	0.89660
Metric Tons Air		257.472	2,006.629

Totals			GSV		NSV
T.O.V.	Liters	2,002,273	Liters 15°C	1,951,422	
G.O.V.	Liters	2,002,273	Barrels 60°F	12,278.86	
			US Gallons 60°F	515,712	
Density 15°C	kg/l	0.8974	Metric Tons Vac	1,751.235	
RD 60/60°F		0.8979	Metric Tons Air	1,749.157	
API 60°F		26.08	Long Tons Air	1,721.53	

Average Temp. °C 56.39

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

EXXONMOBIL PETROLEUM & CHEMICAL BV  
 RU 2235  
 POLDERDIJKWEG 3  
 B-2030 ANTWERPEN  
 Belgium  
 ExxonMobil Scheduler  
 AF20285



Job No 12004/00127295.0000/01/I/20  
 Report date 13 Nov 2020  
 Installation Vlaardingen, Netherlands, Vopak Terminal Vlaardingen

**Vessel HAWVA ANA**  
**Product AP/E Core 2500**

Outturn date: 13 Nov 2020

## Shore Tank Report Single

### Shore tank 2038 at Vopak Terminal Vlaardingen

Shore tank measurement		Open	Close
Date / Time of measurement		10 Nov 2020 19:43	13 Nov 2020 09:07
Average Innage	mm	VMS	VMS
Average temp.	°C	54.60	53.60
T.O.V.	Liters	1,509,213	2,294,625
G.O.V.	Liters	1,509,213	2,294,625
Dens 15°C	kg/l	0.8992	0.8987
V.C.F.	54D	0.97213	0.97283
G.S.V.	liters 15°C	1,467,370	2,232,504
Main Table 56	MPMS 11.5.3.4.7	0.89810	0.89760
Metric Tons Air		1,317.845	2,003.896

Totals		GSV	NSV
T.O.V.	Liters	785,412	Liters 15°C 765,134
G.O.V.	Liters	785,412	Barrels 60°F 4,814.43
			US Gallons 60°F 202,206
Density 15°C	kg/l	0.8977	Metric Tons Vac 686.866
RD 60/60°F		0.8982	Metric Tons Air 686.051
API 60°F		26.03	Long Tons Air 675.22

Average Temp. °C 51.68

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

EXXONMOBIL PETROLEUM & CHEMICAL BV  
 RU 2235  
 POLDERDIJKWEG 3  
 B-2030 ANTWERPEN  
 Belgium  
 ExxonMobil Scheduler  
 AF20285



Job No 12004/00127295.0000/01/I/20  
 Report date 13 Nov 2020  
 Installation Vlaardingen, Netherlands, Vopak Terminal Vlaardingen

**Vessel HAWVA ANA**  
**Product AP/E Core 2500**

Outturn date: 13 Nov 2020

## Shore Tank Report Single

### Shore tank 2039 at Vopak Terminal Vlaardingen

Shore tank measurement		Open	Close
Date / Time of measurement		10 Nov 2020 19:43	13 Nov 2020 14:53
Average Innage	m m	VMS	VMS
Average temp.	°C	55.40	54.20
T.O.V.	Liters	469,230	1,783,712
G.O.V.	Liters	469,230	1,783,712
Dens 15°C	kg/l	0.9008	0.8983
V.C.F.	54D	0.97162	0.97239
G.S.V.	liters 15°C	455,931	1,734,607
Main Table 56	MPMS 11.5.3.4.7	0.89970	0.89720
Metric Tons Air		410.201	1,556.289

Totals			GSV		NSV
T.O.V.	Liters	1,314,482	Liters 15°C	1,278,676	
G.O.V.	Liters	1,314,482	Barrels 60°F	8,045.77	
			US Gallons 60°F	337,922	
Density 15°C	kg/l	0.8974	Metric Tons Vac	1,147.450	
RD 60/60°F		0.8979	Metric Tons Air	1,146.088	
API 60°F		26.08	Long Tons Air	1,127.99	

Average Temp. °C 53.77

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

EXXONMOBIL PETROLEUM & CHEMICAL BV  
 RU 2235  
 POLDERDIJKWEG 3  
 B-2030 ANTWERPEN  
 Belgium  
 ExxonMobil Scheduler  
 AF20285



Job No 12004/00127295.0000/01/I/20  
 Report date 13 Nov 2020  
 Installation Vlaardingen, Netherlands, Vopak Terminal Vlaardingen

**Vessel HAWVA ANA**  
**Product AP/E Core 2500**

Outturn date: 13 Nov 2020

## Shore Tank Report Single

### Shore tank 6505 at Vopak Terminal Vlaardingen

Shore tank measurement		Open	Close
Date / Time of measurement		11 Nov 2020 02:45	12 Nov 2020 08:39
Average Innage	m m	Empty	VMS
Average temp.	°C		56.10
T.O.V.	Liters		496,875
G.O.V.	Liters		496,875
Dens 15°C	kg/l		0.8975
V.C.F.	54D		0.97102
G.S.V.	liters 15°C		482,519
Main Table 56	MPMS 11.5.3.4.7		0.89640
Metric Tons Air			432.530

Totals		GSV		NSV
T.O.V.	Liters	496,875	Liters 15°C	482,519
G.O.V.	Liters	496,875	Barrels 60°F	3,036.14
			US Gallons 60°F	127,518
Density 15°C	kg/l	0.8975	Metric Tons Vac	433.044
RD 60/60°F		0.8980	Metric Tons Air	432.530
API 60°F		26.07	Long Tons Air	425.70

Average Temp. °C 56.10

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

EXXONMOBIL PETROLEUM & CHEMICAL BV  
 RU 2235  
 POLDERDIJKWEG 3  
 B-2030 ANTWERPEN  
 Belgium  
 ExxonMobil Scheduler  
 AF20285



Job No 12004/00127295.0000/01/I/20  
 Report date 13 Nov 2020  
 Installation Vlaardingen, Netherlands, Vopak Terminal Vlaardingen

**Vessel HAWVA ANA**  
**Product AP/E Core 150**

Outturn date: 11 Nov 2020

## Ullage Report Arrival

Survey Date and Time 11 Nov 2020 02:34

Dens. 15°C Vac

0.8697

Tank	ullage mm	ullage corr mm	TOV Liters	Free water mm	Liters	GOV Liters	Temp °C	VCF table 54D	GSV Liters 15°C
C1	1340	1368	240,342			240,342	22.00	0.99494	239,126
P2	1370	1448	614,199			614,199	27.40	0.99103	608,690
S2	1340	1413	613,494			613,494	27.00	0.99132	608,169
P4	1355	1395	419,026			419,026	37.10	0.98397	412,309
S4	1320	1360	419,702			419,702	36.60	0.98434	413,129
P7	1380	1441	600,410			600,410	34.40	0.98594	591,968
S7	1350	1411	608,154			608,154	34.20	0.98608	599,688
Totals			3,515,327			3,515,327			3,473,079

### Summary Totals

On-board figures	ROB Information	Draft	Correction
GSV Liters 15°C	3,473,079	FORE m	6.00 TRIM m
TCV Liters 15°C	3,473,079	AFT m	7.40 LIST °

On-board figures	Discharged figures
GSV Liters 15°C	3,473,079
GSV Barrels 60°F	21,853.75
GSV US gallons 60	917,858
MT vac	3,020.534
MT air	3,016.821
LT	2,969.17
GSV Disch. Ltrs 15°C	3,473,079
GSV Disch. Bbls 60°F	21,853.75
GSV Disch. US Glns 60°F	917,858
MT Vac Disch.	3,020.534
MT Air Disch.	3,016.821
LT Disch.	2,969.17

Signed by: Ship's representative

Name: A.Kaan

Rank: Chief Officer

Saybolt representative

P. Stad

Saybolt Inspector

Measurements in accordance with API standards.

Saybolt Nederland B.V., P.O. Box 151, 3000 AD Rotterdam, The Netherlands  
 Tel. +31 (0)10 46 09 911 FAX +31 (0)10 435 3600  
 Website: www.saybolt.com E-mail: saybolt@corelab.com

Date: 13 Nov 2020 23:23  
 Page 16 of 22

All our activities are carried out under Saybolt's terms and conditions, available at www.corelab.com/saybolt/terms-conditions

SAUL4 ULL V4.1.1.8 2020/08/03



EXXONMOBIL PETROLEUM & CHEMICAL BV  
 RU 2235  
 POLDERDIJKWEG 3  
 B-2030 ANTWERPEN  
 Belgium  
 ExxonMobil Scheduler  
 AF20285



Job No 12004/00127295.0000/01/I/20  
 Report date 13 Nov 2020  
 Installation Vlaardingen, Netherlands, Vopak Terminal Vlaardingen

**Vessel HAWVA ANA**  
**Product AP/E Core 150**

Outturn date: 11 Nov 2020

## Ullage Report LoadPort

Survey Date and Time 09 Nov 2020 12:07

Dens. 15°C Vac

0.8697

Tank	ullage mm	ullage corr mm	TOV Liters	Free water mm	Liters	GOV Liters	Temp °C	VCf table 54D	GSV Liters 15°C
C1	13250	1355	241,055			241,055	29.30	0.98964	238,558
P2	1350	1436	615,738			615,738	31.60	0.98797	608,331
S2	1325	1404	614,735			614,735	31.60	0.98797	607,340
P4	1380	1423	417,700			417,700	32.40	0.98739	412,433
S4	1350	1393	418,100			418,100	32.60	0.98725	412,769
P7	1395	1461	599,157			599,157	31.70	0.98790	591,907
S7	1370	1436	606,486			606,486	32.00	0.98768	599,014
Totals			3,512,971			3,512,971			3,470,352

### Summary Totals

On-board figures	OBQ Information	Draft	Correction
GSV Liters 15°C	3,470,352	FORE m	6.06 TRIM m
TCV Liters 15°C	3,470,352	AFT m	7.55 LIST °

### On-board figures

GSV Liters 15°C	3,470,352	Average Product Temp °C	31.74
GSV Barrels 60°F	21,836.59		
GSV US gallons 60	917,137		
MT vac	3,018.162		
MT air	3,014.452		
LT	2,966.84		

### Remarks

Ullages and temperatures copied from load port, recalculated by Saybolt.

Signed by: Ship's representative  
 Name: A.Kaan  
 Rank: Chief Officer

Saybolt representative  
 M. van den Enden  
 Saybolt Inspector

Measurements in accordance with API standards.

EXXONMOBIL PETROLEUM & CHEMICAL BV  
 RU 2235  
 POLDERDIJKWEG 3  
 B-2030 ANTWERPEN  
 Belgium  
 ExxonMobil Scheduler  
 AF20285



Job No 12004/00127295.0000/01/I/20  
 Report date 13 Nov 2020  
 Installation Vlaardingen, Netherlands, Vopak Terminal Vlaardingen

**Vessel HAWVA ANA**  
**Product AP/E Core 2500**

Outturn date: 13 Nov 2020

## Ullage Report Arrival

Survey Date and Time 11 Nov 2020 02:34

Dens. 15°C Vac

0.8984

Tank	ullage mm	ullage corr mm	TOV Liters	Free water mm	Liters	GOV Liters	Temp °C	VCf table 54D	GSV Liters 15°C
P3	1475	1548	703,226			703,226	50.30	0.97516	685,758
S3	1785	1858	676,236			676,236	50.70	0.97487	659,242
P5	1575	1602	298,979			298,979	52.30	0.97374	291,128
S5	1880	1907	278,754			278,754	50.90	0.97473	271,710
P6	1530	1608	740,212			740,212	53.20	0.97310	720,300
S6	1590	1668	732,620			732,620	53.00	0.97324	713,015
P8	1685	1754	588,619			588,619	52.20	0.97381	573,203
S8	1935	2003	564,564			564,564	52.80	0.97339	549,541
Totals			4,583,210			4,583,210			4,463,897

### Summary Totals

On-board figures	ROB Information	Draft	Correction
GSV Liters 15°C	4,463,897	FORE m	6.00 TRIM m
TCV Liters 15°C	4,463,897	AFT m	7.40 LIST °

On-board figures	Discharged figures
GSV Liters 15°C	4,463,897 GSV Disch. Ltrs 15°C
GSV Barrels 60°F	28,088.02 GSV Disch. Bbls 60°F
GSV US gallons 60	1,179,697 GSV Disch. US Glns 60°F
MT vac	4,010.386 MT Vac Disch.
MT air	4,005.633 MT Air Disch.
LT	3,942.37 LT Disch.

Signed by: Ship's representative  
 Name: A.Kaan  
 Rank: Chief Officer

Saybolt representative  
 P. Stad  
 Saybolt Inspector

Measurements in accordance with API standards.

EXXONMOBIL PETROLEUM & CHEMICAL BV  
RU 2235  
POLDERDIJKWEG 3  
B-2030 ANTWERPEN  
Belgium  
ExxonMobil Scheduler  
AF20285



Job No 12004/00127295.0000/01/I/20  
Report date 13 Nov 2020  
Installation Vlaardingen, Netherlands, Vopak Terminal Vlaardingen

**Vessel HAWVA ANA**  
**Product AP/E Core 2500**

Outturn date: 13 Nov 2020

## Ullage Report LoadPort

Survey Date and Time 09 Nov 2020 12:07

Dens. 15°C Vac

0.8984

Tank	ullage mm	ullage corr mm	TOV Liters	Free water mm	Liters	GOV Liters	Temp °C	VCf table 54D	GSV Liters 15°C
P3	1480	1559	702,238			702,238	48.30	0.97658	685,792
S3	1795	1874	674,757			674,757	48.60	0.97637	658,812
P5	1590	1619	298,276			298,276	50.10	0.97530	290,909
S5	1900	1929	277,874			277,874	50.90	0.97474	270,855
P6	1540	1624	738,609			738,609	48.40	0.97651	721,259
S6	1610	1694	729,996			729,996	48.40	0.97651	712,848
P8	1685	1759	588,196			588,196	49.50	0.97573	573,920
S8	1960	2033	562,052			562,052	49.50	0.97573	548,411
Totals			4,571,998			4,571,998			4,462,806

### Summary Totals

On-board figures	OBQ Information	Draft	Correction
GSV Liters 15°C	4,462,806	FORE m	6.06 TRIM m
TCV Liters 15°C	4,462,806	AFT m	7.55 LIST °

### On-board figures

GSV Liters 15°C	4,462,806	Average Product Temp °C	48.95
GSV Barrels 60°F	28,081.16		
GSV US gallons 60	1,179,409		
MT vac	4,009.406		
MT air	4,004.654		
LT	3,941.41		

### Remarks

Ullages and temperatures copied from load port, recalculated by Saybolt.

Signed by: Ship's representative  
Name: A.Kaan  
Rank: Chief Officer

Saybolt representative  
M. van den Enden  
Saybolt Inspector

Measurements in accordance with API standards.

EXXONMOBIL PETROLEUM & CHEMICAL BV  
RU 2235  
POLDERDIJKWEG 3  
B-2030 ANTWERPEN  
Belgium  
ExxonMobil Scheduler  
AF20285



Job No 12004/00127295.0000/01/I/20  
Report date 13 Nov 2020  
Installation Vlaardingen, Netherlands, Vopak Terminal Vlaardingen

**Vessel HAWVA ANA**  
**Product AP/E Core 150**

Outturn date: 11 Nov 2020

## Bill Of Lading Report

Certificate No.		1
Consignor	ExxonMobil	
Date	01 Nov 2020	
Destination	Vlaardingen Netherlands	
Grade	AP/E Core 150	
Quantity	Gross	Net
Liters 15°C	3,488,730	3,488,730
Barrels 60°F *	21,952.23	
US Gallons 60°F *	921,994	
Metric Tons Vac *	3,033.975	
Metric Tons Air	3,030.246	
Long Tons *	2,982.39	
Density 15°C	0.8697	
Density 20°C	0.8666	
Api 60°F	31.10	
RD 60/60°F	0.8702	

\* As calculated by Saybolt for comparison purposes only.

EXXONMOBIL PETROLEUM & CHEMICAL BV  
RU 2235  
POLDERDIJKWEG 3  
B-2030 ANTWERPEN  
Belgium  
ExxonMobil Scheduler  
AF20285



Job No 12004/00127295.0000/01/I/20  
Report date 13 Nov 2020  
Installation Vlaardingen, Netherlands, Vopak Terminal Vlaardingen

**Vessel HAWVA ANA**  
**Product AP/E Core 2500**

Outturn date: 13 Nov 2020

## Bill Of Lading Report

Certificate No.		2
Consignor	ExxonMobil	
Date	01 Nov 2020	
Destination	Vlaardingen Netherlands	
Grade	AP/E Core 2500	
Quantity	Gross	Net
Liters 15°C	4,475,700	4,475,700
Barrels 60°F *	28,162.29	
US Gallons 60°F *	1,182,816	
Metric Tons Vac *	4,020.712	
Metric Tons Air	4,015.947	
Long Tons *	3,952.52	
Density 15°C	0.8984	
Density 20°C	0.8953	
Api 60°F	25.91	
RD 60/60°F	0.8989	

\* As calculated by Saybolt for comparison purposes only.

EXXONMOBIL PETROLEUM & CHEMICAL BV  
RU 2235  
POLDERDIJKWEG 3  
B-2030 ANTWERPEN  
Belgium  
ExxonMobil Scheduler  
AF20285



Job No 12004/00127295.0000/01/I/20  
Report date 13 Nov 2020  
Installation Vlaardingen, Netherlands, Vopak Terminal Vlaardingen

**Vessel HAWVA ANA**  
**Product AP/E Core 150, AP/E Core 2500**

## Vessel Experience Report

Outturn date: 11 Nov 2020, 13 Nov 2020

Voyage number	Grade	Port	Date	Ship's Sailing Metric Tons	OBQ Metric Tons	B/L Metric Tons	Difference Metric Tons	VLR Ship / Shore	Qual. voyage
last	09/20, 09B/20	Base Oil, FAME	Le Havre, Bordeaux	28 Sep 2020	6,518.189	6,518.950	-0.761	0.99988	yes
2nd	08/20	Sunflowerseed Oil	Chornomorsk	26 Aug 2020	<del>4,970.623</del>	<del>5,000.000</del>	<del>-29.477</del>	<del>0.99440</del>	no
3rd	07/20	Fuel Ethanol	Cartagena	03 Jul 2020	2,992.731	3,002.381	-9.650	0.99679	yes
4th	06/20	Soyabean Oil	El Dekheila	18 Jun 2020	5,966.845	5,997.860	-31.015	0.99483	yes
5th	05/20	Base Oil	Yanbu-Alexandria	27 May 2020	6,449.949	6,481.949	-32.000	0.99506	yes
6th	04/20	Base Oil	Yanbu-Jeddah	16 May 2020	4,418.574	4,430.325	-11.751	0.99735	yes
7th	03/20	Sunflower Seed Oil	Mariupol	06 Apr 2020	6,291.175	6,300.000	-8.825	0.99860	yes
8th	02/20	Indu Ethanol	Port Sudan	16 Mar 2020	6,500.124	6,523.007	-22.883	0.99649	yes
9th	01/20	Lube Oil	Rotterdam	13 Jan 2020	5,984.274	6,001.151	-16.877	0.99719	yes
10th	18/19	Benzene Stream	Santa Panagia	28 Dec 2019	5,457.936	5,466.961	-9.025	0.99835	yes
11th	17/19	Gasoil Ultra low sulphur	Novorossiysk	12 Dec 2019	6,598.058	6,599.576	-1.518	0.99977	yes
12th	16/19	Premium CBOB (D4) 13.5 RVP	Bourgas	24 Nov 2019	3,503.506	3,512.259	-8.753	0.99751	yes
13th	16/19 B	ULSD 10 ppm	Bourgas	24 Nov 2019	1,513.678	1,512.911	0.767	1.00051	yes
14th	15/19A	CSS	Lavera	12 Nov 2019	6,250.594	6,250.669	-0.075	0.99999	yes
15th	15/19B	MEC	Lavera	11 Nov 2019	992.732	992.752	-0.020	0.99998	yes
16th	14/19B	Coconut Oil, Crude	Constanta	30 Oct 2019	2,991.822	3,000.000	-8.178	0.99727	yes
17th	14/19A	Coconut Oil, Crude	Dneprobugskiy	28 Oct 2019	3,000.881	3,000.000	0.881	1.00029	yes
18th	13/19	ULSD 10 ppm	Novorossiysk	21 Oct 2019	5,823.001	5,833.475	-10.474	0.99820	yes
19th	12/19B	ULSD 10 ppm	Bourgas	13 Oct 2019	2,024.533	2,026.609	-2.076	0.99898	yes
20th	12/19A	Premium CBOB (D4) 13.5 RVP	Bourgas	13 Oct 2019	3,023.682	3,027.447	-3.765	0.99876	yes
Totals									
Totals				91,272.807		91,478.282			
Qualifying Totals				86,302.284		86,478.282			

First average (Total Ship/Total Shore)

+ 0.3% of first average (excl. gross errors)

Second average (Qualifying Total Ship/ Qualifying Total Shore)

+ 0.3% of second average

0.99775

1.00074

0.99796

1.00095

- 0.3% 0.99476

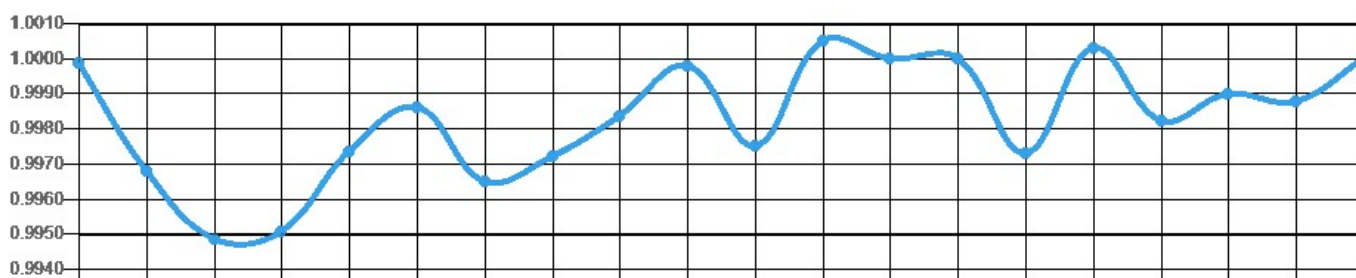
- 0.3% 0.99497

### Vessel Experience Factor based on second average

**0.9980**

The above mentioned quantities are for the last 20 voyages obtained from ship record and can not be guaranteed as accurate by Saybolt. No liability can be assumed for errors resulting from improper information supplied by the vessel.

The resulting VEF has been calculated in accordance with the latest method published by the Energy Institute and the API as API MPMS 17.9 / Energy Institute HM 49, unless as otherwise noted and with the agreement of interested parties.



Voyages excluded:

A. Gross error voyages

B. Voyages where only vessel tank measurements were available.

C. All voyages prior to any changes to measurement equipment, tables, vessel's structure, or other changes requiring the issuance of new capacity tables

Signed by: Ship's representative

Name: A.Kaan

Rank: Chief Officer

Saybolt representative

M. van den Enden

Saybolt Inspector

Saybolt Nederland B.V., P.O. Box 151, 3000 AD Rotterdam, The Netherlands

Tel. +31 (0)10 46 09 911 FAX +31 (0)10 435 3600

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

All our activities are carried out under Saybolt's terms and conditions, available at www.corelab.com/saybolt/terms-conditions

SAI.L4 VEF V4.0.11 2019/10/30

Date: 13 Nov 2020 23:23

Page 22 of 22