

EXXONMOBIL PETROLEUM & CHEMICAL BV
RU 2235
POLDERDIJKWEG 3
B-2030 ANTWERPEN
Belgium
ExxonMobil Scheduler
AF21045 (Engen)



Job No 12004/00130857.0000/01/I/21
Report date 30 Mar 2021
Installation Vlaardingen, Netherlands, Vopak Terminal Vlaardingen

Vessel BOW SKY
Product AP/E Core 2500, AP/E Core 600

Bill of Lading date: 29-Mar-2021, 29-Mar-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 15 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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Vessel BOW SKY
Product AP/E Core 600

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	1,102.171	
Bill of Lading date		29 Mar 2021	
Average product temperature onboard	°C	31.60	
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)		5031	
Type of Standpipe of shore tank(s)		Slotted	
Shore tank measurements were carried out with		Shore equipment/ATG	by See Shore tank details report for data
Shore tank temperatures were carried out with		Shore equipment/ATG	by Automatic Tank Temperature
Vessel data			
Cargo stowed in cargo tanks		P7	
Type of standpipes of vessel tanks		Slotted	
Vessel tank measurement were carried out with		Vessel/barge equipment/ATG	by UTI
Vessel tank measurement equipment used		G10903	
Vessel tank temperatures were carried out with		Vessel/barge equipment/ATG	by UTI
Vessel tank temperature equipment number		G10903	
Sea Condition		Calm (glassy) - 0 m (0 ft)	
Weather condition		Clear Sky	
Operational data			
Agreed Pump rate	Cbm/hr	250	
Ambient outside temperature at loading		10.00	
Quality has been determined by		Shore	

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Vessel BOW SKY
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	396.713	
Bill of Lading date		29 Mar 2021	
Average product temperature onboard	°C	49.50	
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)		2038	
Type of Standpipe of shore tank(s)		Slotted	
Shore tank measurements were carried out with		Shore equipment/ATG	by See Shore tank details report for data
Shore tank temperatures were carried out with		Shore equipment/ATG	by Automatic Tank Temperature
Vessel data			
Cargo stowed in cargo tanks		B6	
Type of standpipes of vessel tanks		Slotted	
Vessel tank measurement were carried out with		Vessel/barge equipment/ATG	by UTI
Vessel tank measurement equipment used		G10903	
Vessel tank temperatures were carried out with		Vessel/barge equipment/ATG	by UTI
Vessel tank temperature equipment number		G10903	
Sea Condition		Calm (glassy) - 0 m (0 ft)	
Weather condition		Clear Sky	
Operational data			
Agreed Pump rate	Cbm/hr	135	
Ambient outside temperature at loading		10.00	
Quality has been determined by		Shore	

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 Report date 30 Mar 2021
 Installation Vlaardingen, Netherlands, Vopak Terminal Vlaardingen

Vessel BOW SKY
Product AP/E Core 2500, AP/E Core 600

Bill of Lading date: 29-Mar-2021, 29-Mar-2021

Time Log

28 Mar 2021 (Sunday)

07:00	End of Sea Passage
07:00	Notice of Readiness Tendered
08:10	Pilot on Board
10:30	First Line Ashore
11:00	Moored Alongside Berth (All Fast) 624
11:00	Notice of Readiness Received
11:05	Gangway in Place
11:10	Saybolt onboard before Operation
11:29	Key Meeting
11:30	Commenced Initial Inspection
13:45	Completed Initial Inspection, Tank(s) Inspected and Accepted
13:46	Delay: Shore line occupied (AP/E Core 2500) (19 hours and 8 minutes)
13:46	Delay: Shore line occupied (AP/E Core 600) (22 hours and 58 minutes)

29 Mar 2021 (Monday)

08:04	Hose remained connected (AP/E Core 2500)
08:25	End of shoreline sample taken (AP/E Core 2500)
08:45	Shoreline released (AP/E Core 2500)
08:55	COMMENCED LOADING (AP/E Core 2500)
10:07	Suspended loading (AP/E Core 2500)
10:33	Completed Foot Sampling (AP/E Core 2500)
10:55	First foot released (AP/E Core 2500)
11:15	Resumed Loading (AP/E Core 2500)
12:45	Arm Connected (AP/E Core 600)
13:05	COMMENCED LOADING (AP/E Core 600)
13:25	Suspended Loading (AP/E Core 600)
13:50	Completed Foot Sampling (AP/E Core 600)
14:22	Analysis released (AP/E Core 600)
14:30	Resumed Loading (AP/E Core 600)
15:30	COMPLETED LOADING (AP/E Core 2500)
16:15	Arm Disconnected (AP/E Core 2500)
16:30	Cargo tank sampled (AP/E Core 2500)
19:30	Arm Disconnected (AP/E Core 600)
19:45	COMPLETED LOADING (AP/E Core 600)
21:00	Saybolt onboard after Operation
21:05	Commenced Final Inspection
22:00	Completed Final Inspection and Calculations, Tank(s) Measured and Sampled

30 Mar 2021 (Tuesday)

02:15	Documents on Board
04:45	Object Sailed / Departed

Remarks

No Vef data available

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Vessel BOW SKY
Product AP/E Core 600

Bill of Lading date: 29-Mar-2021

Summary Loading (GSV)

Gross Standard Volume Data

GSV Figures	Loaded excl OBQ	Bill of Lading	Δ Quantity	Δ %
Liters 15°C	1,245,571	1,250,478	-4,907	-0.39
Barrels 60°F	7,837.54	7,868.42	-30.88	-0.39
US Gallons 60°F	329,177	330,474	-1,297	-0.39
Metric Tons Vac	1,099.213	1,103.505	-4.292	-0.39
Metric Tons Air	1,097.884	1,102.171	-4.287	-0.39
Long Tons Air	1,080.54	1,084.76	-4.22	-0.39

GSV Figures (VEF Adjusted)	Loaded adjusted by VEF	Bill of Lading	Δ Quantity	Δ %
Liters 15°C	1,245,571	1,250,478	-4,907	-0.39
Barrels 60°F	7,837.54	7,868.42	-30.88	-0.39

	Density 15°C	Density 20°C	API 60°F	RD 60/60°F	S&W%
Vessel Loaded	0.8825	0.8794	28.75	0.8830	
Bill of Lading	0.8825	0.8794	28.75	0.8830	

General Data

Vessel Loaded Ratio 0.99608

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Vessel BOW SKY
Product AP/E Core 2500

Bill of Lading date: 29-Mar-2021

Summary Loading (GSV)

Gross Standard Volume Data

GSV Figures	Loaded excl OBQ	Bill of Lading	Δ Quantity	Δ %
Liters 15°C	443,168	441,676	1,492	0.34
Barrels 60°F	2,788.53	2,779.14	9.39	0.34
US Gallons 60°F	117,118	116,724	394	0.34
Metric Tons Vac	398.543	397.183	1.360	0.34
Metric Tons Air	398.071	396.713	1.358	0.34
Long Tons Air	391.78	390.45	1.33	0.34

GSV Figures (VEF Adjusted)	Loaded adjusted by VEF	Bill of Lading	Δ Quantity	Δ %
Liters 15°C	443,168	441,676	1,492	0.34
Barrels 60°F	2,788.53	2,779.14	9.39	0.34

	Density 15°C	Density 20°C	API 60°F	RD 60/60°F	S&W%
Vessel Loaded	0.8993	0.8962	25.75	0.8998	
Bill of Lading	0.8993	0.8962	25.75	0.8998	

General Data

Vessel Loaded Ratio 1.00338

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Vessel BOW SKY
Product AP/E Core 2500, AP/E Core 600

Bill of Lading date: 29-Mar-2021, 29-Mar-2021

Sample Report

Grade	Description	Sealed	Distribution	Amount	Volume
AP/E Core 2500	Shore tank 2038:Running from shore tank before loading	Open	Retain	1	1 liters
AP/E Core 2500	Shore tank 2038:Dead bottom from shore tank before loading	Open	Retain	1	0.25 liters
AP/E Core 2500	End of shoreline at jetty before and during loading	Open	Retain	2	1 liters
AP/E Core 2500	TV BOW SKY:Foot from ships tanks during loading	Open	Retain	1	1 liters
AP/E Core 2500	TV BOW SKY:Running from ships tanks after loading	Open	Retain	2	1 liters
AP/E Core 2500	TV BOW SKY:Dead bottom from ships tanks after loading	Open	Retain	1	0.25 liters
AP/E Core 2500	Shore tank 2038:Running from shore tank before loading	235824	Vessel	1	1 liters
AP/E Core 2500	End of shoreline at jetty before loading	235854	Vessel	1	1 liters
AP/E Core 2500	TV BOW SKY:Foot from ships tanks during loading	235855	Vessel	1	1 liters
AP/E Core 2500	TV BOW SKY:Running from ships tanks after loading	235850	Vessel	1	1 liters
AP/E Core 600	Shore tank 5031:Running from shore tank before loading	Open	Retain	1	1 liters
AP/E Core 600	Shore tank 5031:Dead bottom from shore tank before loading	Open	Retain	1	0.25 liters
AP/E Core 600	End of shoreline at jetty before and during loading	Open	Retain	2	1 liters
AP/E Core 600	TV BOW SKY:Foot from ships tanks during loading	Open	Retain	1	1 liters
AP/E Core 600	TV BOW SKY:Running from ships tanks after loading	Open	Retain	2	1 liters
AP/E Core 600	TV BOW SKY:Dead bottom from ships tanks after loading	Open	Retain	1	0.25 liters
AP/E Core 600	Shore tank 5031:Running from shore tank before loading	235989	Vessel	1	1 liters
AP/E Core 600	End of shoreline at jetty before loading	235861	Vessel	1	1 liters
AP/E Core 600	TV BOW SKY:Foot from ships tanks during loading	235860	Vessel	1	1 liters
AP/E Core 600	TV BOW SKY:Running from ships tanks after loading	235863	Vessel	1	1 liters
Total Samples				24	

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 BOW SKY
Product AP/E Core 600

Bill of Lading date: 29-Mar-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 Inspection:	28 Mar 2021
Time of Inspection:	13:45
Last cargo	Aniline
Second last cargo	Styrene Monomer
Third last cargo	Yubase 6
Method said to be used to clean tanks	Bw.ambient Sw., Bwhsw 1 hr., Fw rinse 10 mins., ventilated, mopped and dried
Method said to be used to clean line system	line used for tank cleaning
Are any tanks coated	No
Which tanks and type of coating	Stainless Steel

This is to advise that on the above date we carried out a visual inspection from deck-level of the following tanks: P7

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 can not be held responsible for those areas beyond visual inspection (such as pumps, lines, closed or restricted sample system) and/or the effectiveness of advised tank cleaning methods.

Sea-valves sealed and numbered:

Signed by: Ship's representative
Name: Eilertsen
Rank: Chief Officer

Saybolt representative
L.T van den Langenberg
Saybolt Inspector

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Report date 30 Mar 2021
Installation Vlaardingen, Netherlands, Vopak Terminal Vlaardingen

Vessel BOW SKY
Product AP/E Core 2500

Bill of Lading date: 29-Mar-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 Inspection:	28 Mar 2021
Time of Inspection:	13:45
Last cargo	Econate 18V
Second last cargo	Ethylene Glycol
Third last cargo	Methanol
Method said to be used to clean tanks	Bwsw 2 hrs., Bwhsw 2 hrs. 80C., Fw.rinse 20., ventilated, mopped and dried
Method said to be used to clean line system	line used for tank cleaning
Are any tanks coated	No
Which tanks and type of coating	Stainless Steel

This is to advise that on the above date we carried out a visual inspection from deck-level of the following tanks: B6

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 can not be held responsible for those areas beyond visual inspection (such as pumps, lines, closed or restricted sample system) and/or the effectiveness of advised tank cleaning methods.

Sea-valves sealed and numbered:
n/a

Signed by: Ship's representative
Name: Eilertsen
Rank: Chief Officer

Saybolt representative
L.T van den Langenberg
Saybolt Inspector

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Vessel BOW SKY
Product AP/E Core 600

Bill of Lading date: 29-Mar-2021

Shore Tank Report Single

Shore tank 5031 at Vopak Terminal Vlaardingen

Shore tank measurement		Open	Close
Date / Time of measurement		29 Mar 2021 12:31	29 Mar 2021 20:17
Average Innage	m m	VMS	VMS
Average temp.	°C	34.60	34.50
T.O.V.	Liters	1,950,507	682,332
G.O.V.	Liters	1,950,507	682,332
Dens 15°C	kg/l	0.8825	0.8825
V.C.F.	54D	0.98600	0.98607
G.S.V.	liters 15°C	1,923,288	672,810
Main Table 56	MPMS 11.5.3.4.7	0.88140	0.88140
Metric Tons Air		1,695.186	593.015

Totals			GSV		NSV
T.O.V.	Liters	1,268,175	Liters 15°C	1,250,478	
G.O.V.	Liters	1,268,175	Barrels 60°F	7,868.42	
			US Gallons 60°F	330,474	
Density 15°C	kg/l	0.8825	Metric Tons Vac	1,103.505	
RD 60/60°F		0.8830	Metric Tons Air	1,102.171	
API 60°F		28.75	Long Tons Air	1,084.76	

Average Temp. °C 34.65

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

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Product AP/E Core 2500

Bill of Lading date: 29-Mar-2021

Shore Tank Report Single

Shore tank 2038 at Vopak Terminal Vlaardingen

Shore tank measurement		Open	Close
Date / Time of measurement		29 Mar 2021 07:52	29 Mar 2021 15:57
Average Innage	m m	VMS	VMS
Average temp.	°C	55.20	54.50
T.O.V.	Liters	1,433,355	978,430
G.O.V.	Liters	1,433,355	978,430
Dens 15°C	kg/l	0.8993	0.8993
V.C.F.	54D	0.97171	0.97221
G.S.V.	liters 15°C	1,392,982	951,306
Main Table 56	MPMS 11.5.3.4.7	0.89820	0.89820
Metric Tons Air		1,251.176	854.463

Totals			GSV		NSV
T.O.V.	Liters	454,925	Liters 15°C	441,676	
G.O.V.	Liters	454,925	Barrels 60°F	2,779.14	
			US Gallons 60°F	116,724	
Density 15°C	kg/l	0.8993	Metric Tons Vac	397.183	
RD 60/60°F		0.8998	Metric Tons Air	396.713	
API 60°F		25.75	Long Tons Air	390.45	

Average Temp. °C 56.71

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

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Vessel BOW SKY
Product AP/E Core 600

Bill of Lading date: 29-Mar-2021

Ullage Report Departure

Survey Date and Time 29 Mar 2021 22:48

Dens. 15°C Vac

0.8825

Tank	ullage mm	ullage corr mm	TOV Liters	Free water mm	Liters	GOV Liters	Temp °C	VCF table 54D	GSV Liters 15°C
P7	4665	4704	1,260,508			1,260,508	31.60	0.98815	1,245,571
Totals			1,260,508			1,260,508			1,245,571

Summary Totals

On-board figures	OBQ Information	Draft	Correction
GSV Liters 15°C	1,245,571	FORE m	8.80 TRIM m -0.39
TCV Liters 15°C	1,245,571	AFT m	9.19 LIST ° nil

On-board figures	Loaded figures
GSV Liters 15°C	1,245,571 GSV Loaded Ltrs 15°C
GSV Barrels 60°F	7,837.54 GSV Loaded Bbls 60°F
GSV US gallons 60	329,177 GSV Loaded US Glns 60°F
MT vac	1,099.213 MT Vac Loaded
MT air	1,097.884 MT Air Loaded
Kilos air	1,097,884 Kilo Air Loaded
LT	1,080.54 LT Loaded

Equipment used

Gauge Equipment Type	Vessel/barge equipment/ATG	Temperature Equipment Type	Vessel/barge equipment/ATG
Gauge Equipment Used	UTI	Temperature Equipment Used	UTI
Gauge Equipment number	G10903	Temperature Equipment number	G10903

Signed by: Ship's representative
 Name: Eilertsen
 Rank: Chief Officer

Saybolt representative
 L.T van den Langenberg
 Saybolt Inspector

Measurements in accordance with API standards.

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Ullage Report Departure

Survey Date and Time 29 Mar 2021 22:48

Dens. 15°C Vac

0.8993

Tank	ullage mm	ullage corr mm	TOV Liters	Free water mm	Liters	GOV Liters	Temp °C	VCF table 54D	GSV Liters 15°C
B6	4344	4349	454,182			454,182	49.50	0.97575	443,168
Totals			454,182			454,182			443,168

Summary Totals

On-board figures	OBQ Information	Draft	Correction
GSV Liters 15°C	443,168	FORE m	8.80 TRIM m -0.39
TCV Liters 15°C	443,168	AFT m	9.19 LIST ° nil

On-board figures	Loaded figures
GSV Liters 15°C	443,168 GSV Loaded Ltrs 15°C 443,168
GSV Barrels 60°F	2,788.53 GSV Loaded Bbls 60°F 2,788.53
GSV US gallons 60	117,118 GSV Loaded US Glns 60°F 117,118
MT vac	398.543 MT Vac Loaded 398.543
MT air	398.071 MT Air Loaded 398.071
Kilos air	398.071 Kilo Air Loaded 398,071
LT	391.78 LT Loaded 391.78

Equipment used

Gauge Equipment Type	Vessel/barge equipment/ATG	Temperature Equipment Type	Vessel/barge equipment/ATG
Gauge Equipment Used	UTI	Temperature Equipment Used	UTI
Gauge Equipment number	G10903	Temperature Equipment number	G10903

Signed by: Ship's representative
 Name: Eilertsen
 Rank: Chief Officer

Saybolt representative
 L.T van den Langenberg
 Saybolt Inspector

Measurements in accordance with API standards.

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Vessel BOW SKY
Product AP/E Core 600

Bill of Lading date: 29 Mar 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	*	1,250,478
Barrels 60°F	*	7,868.42
US Gallons 60°F	*	330,474
Metric Tons vac	*	1,103.505
Metric Tons air		1,102.171
Long Tons	*	1,084.76

* as calculated by Saybolt only.

These quantities have been determined by measurement of shore tanks.		
B/L Dens. 15°C Vac		0.8825
B/L Density 20°C		0.8794
B/L Api 60°F		28.75
B/L RD 60/60°F		0.8830

Additional data		
Loadport	Vlaardingen, Netherlands	
Destination	Durban	

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	1.00121064
Metric Tons Air to Long Tons	MPMS 11.5 - Annex D	0.9842065

Signed by: Saybolt representative
 Name: L. van den Langenberg
 Rank: Saybolt Inspector

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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	*	441,676
Barrels 60°F	*	2,779.14
US Gallons 60°F	*	116,724
Metric Tons vac	*	397.183
Metric Tons air		396.713
Long Tons	*	390.45

** as calculated by Saybolt only.*

These quantities have been determined by measurement of shore tanks.		
B/L Dens. 15°C Vac		0.8993
B/L Density 20°C		0.8962
B/L Api 60°F		25.75
B/L RD 60/60°F		0.8998

Additional data		
Loadport	Vlaardingen, Netherlands	
Destination	Durban	

Criteria used		
Liters 15°C (1000) to US Barrels 60°F	MPMS 11.5.3 - 4.25	6.292264755
Liters 15°C to US Gallons 60°F	MPMS 11.5.3 - 4.24	0.2642751197
Metric Tons Air to Metric Tons Vac	MPMS 11.5.3 - 4.5	1.00118519
Metric Tons Air to Long Tons	MPMS 11.5 - Annex D	0.9842065

Signed by: Saybolt representative
Name: L. van den Langenberg
Rank: Saybolt Inspector