

EXXONMOBIL CHEMICAL CO
22777 Springwoods Village Parkway
77389 Spring
United States
Ms. P. Garcia
USEBARGCHE-2106-003 / 5346479



Job No 13074/00002226.0000/01/I/21
Report date 12 Apr 2021
Installation Houston, United States of America, Vopak Terminal Deer Park

Barge CBC 16
Product Aromatic 150

Outturn date: 09 Apr 2021

Contents page

Saybolt LP 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 13 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: Cecil Fowler

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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Barge **CBC 16**
Product **Aromatic 150**

Cover Page Discharge

Discharge data

Quantity data

Outturn date	09 Apr 2021
Loadport	
Average product temperature onboard	°F 71.9

Calculation data

Shore tank Volume conversion table used	D1555-16
Vessel Volume conversion table used	D1555-16

Shore data

Discharge Installation	Vopak Terminal Deer Park
Shore tank number(s)	565

Vessel data

Cargo stowed in cargo tanks	1C, 2C, 3C	
Vessel tank measurement were carried out with	Saybolt equipment	by UTI
Vessel tank measurement equipment number	g24225	
Vessel tank temperatures were carried out with	Saybolt equipment	by UTI
Vessel tank temperature equipment number	g24225	
Sea Condition	Calm (rippled) - 0 to 0.1 m (0.00 to 0.33 ft)	

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Product **Aromatic 150**

Outturn date: 09 Apr 2021

Time Log

06 Apr 2021 (Tuesday)

18:20	Inspector arrived at Channel shipyard
18:40	Commenced barge inspection and pre sampling at CSY
18:55	Complete barge inspection and pre sampling at CSY
19:00	Commenced flushing port manifold at CSY
19:10	Complete flushing port manifold at CSY / Port manifold sample drawn
19:15	Commenced flushing STBD manifold at CSY
19:20	Complete flushing STBD manifold at CSY / STBD manifold sample drawn
19:25	Inspector departed Channel shipyard

09 Apr 2021 (Friday)

04:40	Object arrived at Installation
04:40	First Line Ashore
04:50	Moored Alongside Berth (All Fast)
04:51	Gangway in Place
04:55	Saybolt onboard before Operation
04:56	Commenced Initial Inspection
05:10	Completed Initial Inspection and Calculations, Tank(s) Measured and Sampled
07:00	Hose / Arm Connected
08:15	COMMENCED DISCHARGE
09:15	Suspended Discharge
10:30	Resumed Discharge
14:50	COMPLETED DISCHARGE
14:55	Saybolt onboard after Operation
14:55	Commenced Final Inspection
15:00	Completed Final Inspection and Calculations, Tank(s) Inspected on Emptiness
15:15	Hose / Arm Disconnected
16:30	Object Sailed / Departed

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Sample Report

Grade	Description	Sealed	Distribution	Amount	Volume
Aromatic 150	RUNNING FROM SHORETANK 565 BEFORE DISCHARGE	Open	Retain	2	1 quarts
Aromatic 150	END OF DOCKLINE 39 BEFORE DISCHARGE	Open	Retain	1	1 quarts
Aromatic 150	RUNNING FROM BARGE TANKS PRIOR TO DISCHARGE	Open	Retain	6	1 quarts
Aromatic 150	RUNNING FROM SHORETANK AFTER DISCHARGE	Open	Retain	3	1 quarts
Aromatic 150	CBC 16: running from 1C, 2C, 3C before discharge	Open	Lab	6	1 quarts
Aromatic 150	CBC 16: Port manifold before discharge	Open	Lab	3	1 quarts
Aromatic 150	CBC 16: STBD manifold before discharge	Open	Lab	3	1 quarts
Aromatic 150	Shore tank 565:Running from shore tank after discharge	Open	Lab	1	1 quarts
Total Samples				25	

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 glass bottles/tins
Loadport samples delivered by	Saybolt Inspector
received by	Vessel

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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Certificate of Quantity

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

Liters 15°C	1,124,453
Cubic meters 15°C	1,124.453
Cubic meters 60°F	1,124.929
Barrels 60°F	7,075.59
Gallons 60°F	297,174.82
Metric Tons vac	1,001.376
Kilos vac	1,001,376
Metric Tons air	1,001.538
Kilos air	1,001,538
Long Tons	985.720
Short Tons	1,104.005
Pounds	2,208,009.00

These quantities have been determined by .

Outturn Api 60°F	27.08
Outturn Density 15°C Vac	
Outturn Rd 60/60°F	0.8923

Criteria used

Barrels 60°F to Cu M 15°C	ASTM Table 4	0.15892
Liters 15°C to Cu m 15°C		0.001
US Barrels 60°F to Cu m 60°F	MPMS 11.5 - Annex D	0.158987304
Barrels to gallons	ASTM Table 1	42
Metric Tons Air to Metric Tons Vac	MPMS 11.5.3 - 4.5	1.001196433
Long Tons to Metric Tons Air	MPMS 11.5 - Annex D	1.0160469088
Pounds to Long Tons	MPMS 11.5 - Annex D	2,240

Signed by: Saybolt representative

Name:

Rank: Saybolt Inspector

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Shore Tank Report Single

Shore tank 565 at Vopak Terminal Deer Park

Shore tank measurement		Open	Close
Date / Time of measurement		09 Apr 2021 02:10	09 Apr 2021 17:15
Average Innage	FT/IN	38-2-13/16	14-8-2/16
Average temp.	°F	72.0	72.8
T.O.V.	Gallons	36,112.00	335,167.00
G.O.V.	Gallons	36,112.00	335,167.00
Api 60°F		27.10	27.10
V.C.F.	D1555-16	0.99415	0.99376
Gallons 60°F		35,901	333,076
Pounds per Gallon 60°F		7.4300	7.4300
Pounds		266,742.00	2,474,751.00

Totals			Volume		Mass/Weight	
T.O.V.	Gallons	299,055.00	Liters 15°C	1,124,453	Metric Tons Vac	1,001.376
G.O.V.	Gallons	299,055.00	Cu m 15°C	1,124.453	Kilos Vac	1,001,376
			Cu m 60°C	1,124.929	Metric Tons Air	1,001.538
RD 60/60°F		0.8923	Barrels 60°F	7,075.59	Kilos Air	1,001,538
API 60°F		27.08	Gallons 60°F	297,174.82	Long Tons Air	985.720
					Short Tons Air	1,104.005
Received temp.	°F	72.9			Pounds	2,208,009.00
Tables used	ASTM Table D1555-16					

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Shore Tank Measurement Details

Shore tank 565

Measurement data (Innage)		Open	Close
Average	FT/IN	38-2-13/16	14-8-2/16
Measurement Equipment Data		Open	Close
Water measurement used		Paste	Paste
Water paste used		kk/masters	kolor kut
Gauging equipment type		Saybolt Equipment	Saybolt Equipment
Gauging Equipment used		Manual Tape	Manual Tape
Gauging equipment number		6273	6273
Temperature equipment type		Saybolt Equipment	Saybolt Equipment
Temperature Equipment used		Portable Electronic Thermometer	Portable Electronic Thermometer
Temperature equipment number		1e154098	1e154098
Inspector Equipment used for verification?		No	Yes
Inspector name		justin alexander	JUSTINE ALEXANDER

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Ullage Report Arrival

Survey Date and Time 09 Apr 2021 04:55

Api 60°F

27.08

Tank	ullage FT/IN	ullage corr FT/IN	TOV Gallons	Free water Gallons	GOV Gallons	Temp °F	VCF D1555-16	GSV Gallons 60°F
1C	6-7-1/4		99,925.14	n/d	99,925.14	69.30	0.99547	99,472.48
2C	6-2-1/4		105,865.00	n/d	105,865.00	73.40	0.99347	105,173.70
3C	7-4-1/4		93,077.46	n/d	93,077.46	72.90	0.99371	92,492.00
Totals			298,867.60		298,867.60			297,138.18

Summary Totals

On-board figures		Draft		Correction	
TOV Gallons	298,867.60	FORE	FT/IN	7.6 TRIM	FT/IN
Free water		AFT	FT/IN	7.6 LIST	°
GOV Gallons	298,867.60	Trim/List correction applied: No			
On-board figures		Discharged figures			
Liters 15°C	1,124,315	Liters 15°C disch.	1,124,315	Average Product Temp °F	71.9
Cu m 15°C	1,124.315	Cu m 15°C disch.	1,124.315	Calcs. based on: D1555-16	
Cu m 60°F	1,124.791	Cu m 60°F disch.	1,124.791		
Barrels 60°F	7,074.72	Barrels 60°F disch.	7,074.72		
Gallons 60°F	297,138.18	Gallons 60°F disch.	297,138.18		
Metric Tons Vac	1,001.254	Metric Tons Vac disch.	1,001.254		
Metric Tons Air	1,001.416	Metric Tons Air disch.	1,001.416		
Kilos Vac	1,001,254	Kilos Vac disch.	1,001,254		
Kilos Air	1,001,416	Kilos Air disch.	1,001,416		
Long Tons Air	985.600	Long Tons Air disch.	985.600		
Short Tons Air	1,103.869	Short Tons Air disch.	1,103.869		
Pounds Air	2,207,737.00	Pounds Air disch.	2,207,737.00		

Signed by: Ship's representative
Name:
Rank:

Saybolt representative
Justin Alexander
Saybolt Inspector

Measurements in accordance with API standards.

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Ullage Report Departure

Survey Date and Time 09 Apr 2021 15:00

Api 60°F

Tank	ullage FT/IN	ullage corr FT/IN	TOV Gallons	Free water Gallons	GOV Gallons	Temp °F	VCF D1555-16	GSV Gallons 60°F
1C	NIL			NIL				
2C	NIL			NIL				
3C	NIL			NIL				
Totals								

Summary Totals

On-board figures			Draft		Correction		nil	
TOV Gallons			FORE	FT/IN	2 TRIM	FT/IN		
Free water			AFT	FT/IN	2 LIST	°		
GOV Gallons			Trim/List correction applied: Yes					
On-board figures								
			Ambient temp					85
			Calcs. based on: D1555-16					

Signed by: Ship's representative
Name:
Rank:

Saybolt representative
TYLER OLANDER
Saybolt Inspector

Measurements in accordance with API standards.

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Letter of Protest

Dear Sirs,

This is to advise that we, Saybolt, as Independent Surveyors on behalf of our clients do hereby lodge protest in respect of:

- **No second line displacement performed**

Furthermore, on behalf of our client, we reserve the right to refer to this matter at a later date.

Signature of this document is acknowledged of receipt only and not an admission of responsibility for the incident.

Signed by: Ship's representative
Name:
Rank:

Shore representative

Loading Master

Saybolt representative

Saybolt Inspector

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Line Displacement Report Chemical

On your request a line displacement was carried out before discharge of the above mentioned vessel, in order to check the condition of the shoreline, and we report as follows:

Capacity of shoreline from tankside to ships manifold	7376
Shore tank(s) used	565
Tanks density	27.1 27.10
Shore line(s) used	39
Shore line API 60°F	27.10
Ship tank(s) used	1c,2c,3c
Ships API 60°F	27.10

Shore Line Displacement Comparison

	Observed Volume Gallons	Temperature	Standard Volume Gallons
Shore			
A Shore tank 565 quantity before	36,082	0	0
B Shore tank 565 quantity after	88,112	0	0
C Shore tank difference (B-A)	52,030		
D Shore tank quantity before	0	0	0
E Shore tank quantity after	0	0	0
F Shore tank difference (E-D)	0		0
G Total shore difference (C+F)	52,030		0
Vessel			
K Ship tanks quantity before	193,003	0	0
L Ship tanks quantity after	139,650	0	0
M Ships difference (K-L)	53,353		0
N Ship line quantity	0		0
O Difference including Ship line (M-N)	53,353		0
Totals			
Difference Ship vs Shore (O-G)	Δ Quantity	Δ %	
Observed Volume Gallons	-1,323	-2.54	
Standard Volume Gallons	0	0	

Signed by: Ship's representative
Name:
Rank:

Shore representative
Loading Master

Saybolt representative
TYLER OLANDER
Saybolt Inspector

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Reference Height and Measurement data report

Manual Tank Heights

Tank	Calibrated Reference Height in FT/IN	Found Reference Height in FT/IN		Gauging Location
		Before	After	
1C	16-4-1/4	16-4-0	17-4-1/4	Center
2C	16-5-0	16-5-0	17-5-1/4	Center
3C	16-4-1/2	16-4-1/2	17-4-0	Center

* Tanks where full sounding depth could not be reached due to obstructions or tank contours.

Draft		Before		After	
		FT/IN		FT/IN	
FWD		FT/IN	7.6	FT/IN	2
AFT		FT/IN	7.6	FT/IN	2

Measurement data Before Operations

Survey Date and Time	09 Apr 2021 04:55	Gauge equipment type	Saybolt equipment
Water Measurement Method	UTI	Gauge equipment used	UTI
Connector Type	mmc	Gauge equipment number	g24225
Sea Condition	Calm (rippled) - 0 to 0.1 m (0.00 to 0.33 ft)	Temp equipment type	Saybolt equipment
		Temp equipment used	UTI
		Temp equipment number	g24225

Measurement data After Operations

Survey Date and Time	09 Apr 2021 15:00	Gauge equipment type	Saybolt equipment
Inspector Equipment used for verification?	Yes	Gauge equipment used	UTI
Water Measurement Method	Paste - KOLOR KUT	Gauge equipment number	G24225
Connector Type	HERMETIC	Temp equipment type	Saybolt equipment
Weather Condition	Clear Sky	Temp equipment used	UTI
Sea Condition	Calm (glassy) - 0 m (0 ft)	Temp equipment number	G24225

Signed by: Ship's representative

Name:

Rank:

Saybolt representative

TYLER OLANDER

Saybolt Inspector

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Void Space/Ballast Reports

Compartment/ Tank	Product	Before		After	
		Quantity Liters	Product	Quantity Liters	Product
fwd	seawater	n/d	seawater	n/d	seawater
mid	seawater	n/d	seawater	n/d	seawater
aft	seawater	n/d	seawater	n/d	seawater

* Tanks where full sounding depth could not be reached due to obstructions or tank contours.

Additional information

Quantity of Oil received from ballast pumped ashore Liters

Tanks used by ship for previous ballast voyage?

Signed by: Ship's representative
Name:
Rank:

Saybolt representative
JUSTINE ALEXANDER
Saybolt Inspector