

EXXONMOBIL CHEMICAL CO  
22777 Springwoods Village Parkway  
77389 Spring  
United States  
Mr. D.N. Nakata  
USEBARGCHE-2009-015 / 4976830



Job No 13074/00001144.0000/01/I/20  
Report date 17 Sep 2020  
Installation Houston, United States of America, Vopak Terminal Deer Park

**Barge Kirby 13022B**  
**Product Aromatic Feedstock**

Bill of Lading date: 10-Sep-2020

**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 14 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: Tiffany Brown

*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 date		10 Sep 2020
Average product temperature onboard	°F	85.3
Calculation data		
Shore tank Volume conversion table used		6B
Vessel Volume conversion table used		6B
Shore data		
Loading Installation		Vopak Terminal Deer Park
Shore tank number(s)		815
Type of Standpipe of shore tank(s)		None
Shore tank measurements were carried out with	Saybolt Equipment	by UTI
Shore tank measurement equipment number	See Shore tank details report for data	
Shore tank temperatures were carried out with	Saybolt Equipment	by UTI
Shore tank temperature equipment number	See Shore tank details report for data	
Vessel data		
Cargo stowed in cargo tanks		1P, 1S, 2P, 2S
Type of standpipes of vessel tanks		None
Vessel tank measurement were carried out with	Saybolt equipment	by UTI
Vessel tank measurement equipment used	g24225	
Vessel tank temperatures were carried out with	Saybolt equipment	by UTI
Vessel tank temperature equipment number	g24225	
Sea Condition	Smooth (wavelets) - 0.1 to 0.5 m (3.9 in to 1 ft 7.7 in)	
Weather condition	Cloudy	
Operational data		
Ambient outside temperature at loading	°F	80.00

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## Time Log

04 Sep 2020 (Friday)	
09:10	Inspector arrived at Kirby cleaning facility for barge inspection and addition of BHT
09:30	Commenced barge inspection and adding BHT in 1p 1s 2p 2s
09:45	Completed barge inspection and adding BHT in 1p 1s 2p 2s
10:00	Inspector departed Kirby cleaning facility
10 Sep 2020 (Thursday)	
01:00	Inspector 1 arrived
02:00	Shore tank gauged open
03:00	Object arrived at Installation
03:20	Moored Alongside Berth (All Fast)
03:30	Saybolt notified by Installation
03:39	Inspector arrived at Installation
03:40	Saybolt onboard before Operation
03:42	Commenced Initial Inspection
03:50	Completed Initial Inspection, Tank(s) Inspected and Accepted
05:40	Hose / Arm Connected
06:35	COMMENCED LOADING
07:25	Suspended Loading for First Foot Sampling
07:35	Commence barge first foot sampling
08:10	Resume loading first foot
08:35	Complete loading first foot
08:45	Complete sampling first foot
08:50	Resume loading after first foot approval
13:55	Commenced Final Inspection
13:55	COMPLETED LOADING
13:55	Saybolt onboard after Operation
14:00	Shore tank gauged closed
14:35	Completed Final Inspection and Calculations, Tank(s) Measured and Sampled
16:00	Documents on Board
16:30	Hose / Arm Disconnected
17:00	Inspector 1 departed

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## Sample Report

Grade	Description	Sealed	Distribution	Amount	Volume
Aromatic Feedstock	Shore tank 815:Running from shore tank before loading	Open	test	4	1 quarts
Aromatic Feedstock	End of shoreline near jetty from shore tank before loading	Open	Retain	1	1 quarts
Aromatic Feedstock	Tb Kirby 13022B:Foot from each compartment during loading	Open	Retain	4	1 quarts
Aromatic Feedstock	Tb Kirby 13022B:Running from each compartment after loading	Open	test	11	1 quarts
Aromatic Feedstock		Open	Retain		
Aromatic Feedstock		Open	Retain		
Total Samples				20	

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 loaded by the above mentioned object amounts to:

	Gross
Liters 15°C	1,536,628
Liters 20°C	1,541,993
Cubic meters 15°C	1,536.628
Cubic meters 20°C	1,541.993
Cubic meters 60°F	1,537.228
Barrels 60°F	9,668.87
US Gallons 60°F	406,092.49
Metric Tons vac	1,501.752
Metric Tons air	1,500.134
Long Tons	1,476.442
Short Tons	1,653.615
Pounds	3,307,229.70

These quantities have been determined by measurement of shore tanks.

B/L API 60°F	13.20
B/L Density 15°C	0.97730
B/L RD 60/60°F	0.97789

### Criteria used

US Gallons 60°F to Liters 15°C	MPMS 11.5.1 - 4.19	3.783936049
Liters 15°C to Cu m 15°C	MPMS 11.5.3 - Annex A	0.001
US Barrels 60°F to Cu m 60°F	MPMS 11.5 - Annex D	0.158987304
US Barrels 60°F to US Gallons 60°F	MPMS 11.5 - Annex D	42
Metric Tons Air to Metric Tons Vac	MPMS 11.5.3 - 4.5	1.001078503
Pounds to Metric Tons Air	MPMS 11.5 - Annex D	453.59237
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 815 at Vopak Terminal Deer Park

Shore tank measurement		Open	Close
Date / Time of measurement		10 Sep 2020 02:00	10 Sep 2020 14:00
Average Innage	FT/IN	20-10-13/16	36-2-3/4
Average temp.	°F	85.6	85.6
T.O.V.	us gallons	733,162.00	323,009.00
G.O.V.	us gallons	733,162.00	323,009.00
API 60°F		13.20	13.20
V.C.F.	6B	0.99010	0.99010
G.S.V.	us gallons 60°F	725,903.70	319,811.21
Table 8	MPMS 11.5.1.4.4	8.144030673	8.144030673
Pounds		5,911,782.00	2,604,552.30

Totals			GSV	NSV
T.O.V.	us gallons	410,153.00	Liters 15°C	1,536,628
G.O.V.	us gallons	410,153.00	Liters 20°C	1,541,993
			Cu m 15°C	1,536.628
Density 20°C	kg/l	0.97730	Cu m 20°C	1,541.993
RD 60/60°F		0.97789	Cu m 60°F	1,537.228
API 60°F		13.20	Barrels 60°F	9,668.87
			US Gallons 60°F	406,092.49
Average Temp.	°F	85.6	Metric Tons Vac	1,501.752
			Metric Tons Air	1,500.134
Tables used:	6B and W.C.F. MPMS 11.5.1.4.4.		Long Tons Air	1,476.442
			Short Tons Air	1,653.615
			Pounds	3,307,229.70

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## Shore Tank Measurement Details

### Shore tank 815

Measurement data (Innage)		Open	Close
Average	FT/IN	20-10-13/16	36-2-3/4
Measurement Equipment Data		Open	Close
Water measurement used		UTI	UTI
Gauging equipment type		Saybolt Equipment	Saybolt Equipment
Gauging Equipment used		UTI	UTI
Gauging equipment number		g24225	G24225
Temperature equipment type		Saybolt Equipment	Saybolt Equipment
Temperature Equipment used		UTI	UTI
Temperature equipment number		g24225	G24225
Inspector name		chris ramirez	justin alexander

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## Ullage Report Arrival

Survey Date and Time 10 Sep 2020 03:40

API 60°F

Tank	ullage FT/IN	ullage corr FT/IN	TOV us gallons	Free water FT/IN	Free water us gallons	GOV us gallons	Temp °F	VCF table 6B	GSV US Gallons 60°F
1P	16-7-1/4			n/d			60.00	1.00000	
1S	16-5-0			n/d			60.00	1.00000	
2P	16-8-1/8			n/d			60.00	1.00000	
2S	16-5-3/8			n/d			60.00	1.00000	

### Summary Totals

On-board figures			Draft		Correction	
	FORE	FT/IN	2.00	TRIM	FT/IN	nil
	AFT	FT/IN	2.00	LIST	°	

On-board figures		
	Sea Water temp °F	75
	Ambient temp °F	85

Signed by: Ship's representative  
Name:  
Rank: *Barge Master*

Saybolt representative  
jo campbell  
*Saybolt Inspector*

Measurements in accordance with API standards.



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**Ullage Report Departure**

Survey Date and Time 10 Sep 2020 13:55

API 60°F

13.20

Tank	ullage FT/IN	ullage corr FT/IN	TOV us gallons	Free water FT/IN	us gallons	GOV us gallons	Temp °F	VCF table 6B	GSV US Gallons 60°F
1P	7-10-0		100,437.96	n/d		100,437.96	85.30	0.99022	99,455.68
1S	7-10-1/2		99,559.74	n/d		99,559.74	85.40	0.99018	98,582.06
2P	7-1-3/4		103,723.20	n/d		103,723.20	85.30	0.99022	102,708.79
2S	7-2-0		104,337.66	n/d		104,337.66	85.20	0.99026	103,321.41
Totals			408,058.56			408,058.56			404,067.94

**Summary Totals**

On-board figures	OBQ Information	Draft	Correction	
GSV US Gallons 60°F	404,067.94	FORE	FT/IN	8.9 TRIM
TCV US Gallons 60°F	404,067.94	AFT	FT/IN	8.9 LIST °

On-board figures	Loaded figures	
GSV Liters 15°C	1,528,968	GSV Loaded Ltrs 15°C
GSV Liters 20°C	1,534,305	GSV Loaded Ltrs 20°C
GSV Cu m 15°C	1,528.968	Cu m 15°C Loaded
GSV Cu m 20°C	1,534.305	Cu m 20°C Loaded
GSV Cu m 60°F	1,529.564	Cu m 60°F Loaded
GSV Barrels 60°F	9,620.67	GSV Loaded Bbls 60°F
GSV US gallons 60	404,067.94	GSV Loaded US Glns 60°F
MT vac	1,494.265	MT Vac Loaded
MT air	1,492.655	MT Air Loaded
LT	1,469.081	LT Loaded
ST	1,645.371	ST Loaded
Pounds	3,290,741.70	Pounds Loaded

Signed by: Ship's representative  
Name:  
Rank: *Barge Master*

Saybolt representative  
justin alexander  
*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:

- **Shore to barge variance of greater than 0.25 %**
- **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

### Mineral

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

Shore tank(s) used	815
Tanks API 60°F	13.22
Shore line API 60°F	13.22
Ship tank(s) used	all tanks
Ships API 60°F	13.22

### Shore Line Displacement Comparison

		Observed Volume Gallons	Temperature °F	Standard Volume Gallons
<b>Shore</b>				
A	Shore tank 815 quantity before	732,604.00		
B	Shore tank 815 quantity after	691,187.00		
C	Shore tank difference (A-B)	41,417.00		
D	Shore tank quantity before	0		
E	Shore tank quantity after			
F	Shore tank difference (D-E)	0		
G	Total shore difference (C+F)	41,417.00		
<b>Vessel</b>				
K	Ship tanks quantity before	0		
L	Ship tanks quantity after	43,693.00		
M	Ships difference (L-K)	43,693.00		
N	Ship line quantity			
O	Difference including Ship line (M+N)	43,693.00		
<b>Totals</b>				
	Difference Ship vs Shore (O-G)	Δ Quantity	Δ %	
	Observed Volume Gallons	2,276.00	5.50	
	Standard Volume Gallons			

Signed by: Ship's representative  
Name:  
Rank:

Shore representative  
  
Loading Master

Saybolt representative  
justin alexander  
Saybolt Inspector

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## Notice of Apparent Discrepancy

TO: THE REPRESENTATIVE OF THE TERMINAL INDICATED ABOVE:

1. The designated shore tanks were gauged, sampled (if applicable) and temperatured (if applicable) before and after cargo transfer and found to have delivered 9,668.87 Bbl GSV at 60°F.
2. The designated vessel tanks were gauged, sampled (if applicable) and temperatured (if applicable) before and after cargo transfer and found to have received 9,620.67 Bbl GSV at 60°F, not applying the vessel's experience factor (VEF).
3. Please investigate the discrepancy between the volumes show above in items 1 and 2 which appears to be 48.20 Bbl and report your findings promptly.
4. The terminal representative designated shore tank(s) number(s) 815 to deliver the above cargo.  
The terminal representative informed us that the shore lines used to transfer the cargo were full before and full after transfer of the cargo.
5. Line fill was verified by the terminal using the following line fill verification procedure: Line displacement ( SLACK )
6. There was no evidence of spillage at the terminal or the vessel.

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

Signed by: Shore representative  
Name:  
Rank: *Loading Master*

Saybolt representative  
Chris Ramirez  
*Saybolt Inspector*

**Note:** If the word "Refused" appears above under "Shore representative", it indicates that a copy of this document was left with the terminal on the date shown at the top, however, the terminal representative refused to acknowledge receipt of the document.

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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	
1P	16-8-0	16-7-1/4	16-8-1/4	Center
1S	16-7-1/4	16-5-0	16-7-1/4	Center
2P	16-5-1/4	16-8-1/8	16-5-1/4	Center
2S	16-5-0	16-5-3/8	16-5-0	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	2.00		FT/IN	8.9
AFT	FT/IN	2.00		FT/IN	8.9

### Measurement data Before Operations

Survey Date and Time	10 Sep 2020 03:40	Gauge equipment type	Saybolt equipment
Inspector Equipment used for verification?	No	Gauge equipment used	UTI
		Gauge equipment number	G24225
Water Measurement Method	UTI	Temp equipment type	Saybolt equipment
Connector Type	HERMETIC	Temp equipment used	UTI
Weather Condition	Cloudy	Temp equipment number	G24225
Sea Condition	Smooth (wavelets) - 0.1 to 0.5 m (3.9 in to 1 ft 7.7 in)		

### Measurement data After Operations

Survey Date and Time	10 Sep 2020 13:55	Gauge equipment type	Saybolt equipment
Water Measurement Method	UTI	Gauge equipment used	UTI
Connector Type	hermetic	Gauge equipment number	g24225
Weather Condition	Cloudy	Temp equipment type	Saybolt equipment
Sea Condition	Smooth (wavelets) - 0.1 to 0.5 m (3.9 in to 1 ft 7.7 in)	Temp equipment used	UTI
		Temp equipment number	g24225

Signed by: Ship's representative

Name:

Rank: *Barge Master*

Saybolt representative

justin alexander

*Saybolt Inspector*

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## Void Space/Ballast Reports

Compartment/ Tank	Product	Before		After	
		Quantity Liters	Product	Quantity Liters	Product
FWD VOID	SEAWATER	0	SEAWATER	0	
MID VOID	SEAWATER	0	SEAWATER	0	
AFT VOID	SEAWATER	0	SEAWATER	0	

\* 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

Saybolt Inspector