

EXXONMOBIL OIL CORPORATION  
22777 SPRINGWOODS VILLAGE PARKWAY  
77389-1425 Spring  
United States  
ExxonMobil MATS MTO Fairfax  
5065250-10



Job No 13052/00002377.0000/01/I/21  
Report date 04 Feb 2021  
Installation Houston, United States of America, ExxonMobil Baytown

**Barge** CBC 397  
**Product** EHC 45

Bill of Lading date: 02-Feb-2021

## Time Log

01 Feb 2021 (Monday)	
00:05	NOR Tendered
10:00	Barge Called In
12:35	Object arrived at Installation
12:50	Moored Aloide Berth (All Fast)
13:15	Saybolt onboard before Operation
13:20	Commenced Initial Inspection
13:35	Completed Initial Inspection, Tank(s) Inspected and Accepted
14:30	Hose / Arm Connected
15:45	Shore Tank No. 25 Gauged Open
19:15	COMMENCED LOADING
19:40	Suspended Loading for First Foot Sampling
20:30	Commenced Barge Inspection for LP
20:40	Completed Barge Inspection for LP
21:00	ST 25 Gauge for LP
22:25	Resumed Loading
02 Feb 2021 (Tuesday)	
07:55	COMPLETED LOADING
08:14	Saybolt onboard after Operation
08:15	Commenced Final Inspection
08:59	Completed Final Inspection and Calculations, Tank(s) Measured and Sampled
09:05	Shore Tank No. 25 Gauged Close
09:45	Hose / Arm Disconnected
10:30	Object Sailed / Departed

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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	4,298,949	4,287,773	11,176	0.26
Liters 20°C	4,315,044	4,303,826	11,218	0.26
Liters 30°C	4,347,731	4,336,428	11,303	0.26
Cu m 15°C	4,298.949	4,287.773	11.176	0.26
Cu m 20°C	4,315.044	4,303.826	11.218	0.26
Cu m 60°F	4,300.712	4,289.532	11.180	0.26
Barrels 60°F	27,050.66	26,980.34	70.32	0.26
US Gallons 60°F	1,136,127.72	1,133,174.28	2,953.44	0.26
Metric Tons Vac	3,618.759	3,609.352	9.407	0.26
Metric Tons Air	3,614.145	3,604.750	9.395	0.26
Long Tons Air	3,557.065	3,547.818	9.247	0.26
Short Tons Air	3,983.913	3,973.556	10.357	0.26
Pounds	7,967,826	7,947,112	20,714	0.26

GSV Figures (VEF Adjusted)	Loaded adjusted by VEF	Bill of Lading	Δ Quantity	Δ %
Liters 15°C	4,298,949	4,287,773	11,176	0.26
Liters 20°C	4,315,044	4,303,826	11,218	0.26
Barrels 60°F	27,050.66	26,980.34	70.32	0.26

	Density 15°C	Density 20°C	API 60°F	RD 60/60°F	S&W%
Vessel Loaded	0.84178		36.50	0.84226	
Bill of Lading	0.84178		36.50	0.84226	

## General Data

Vessel Loaded Ratio 1.00261

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## Shore Tank Report Single

### Shore tank 25 at ExxonMobil Baytown

Shore tank measurement		Open	Close
Date / Time of measurement		01 Feb 2021 15:45	02 Feb 2021 09:05
Average Innage	FT/IN	21 5-7/8	7 5-3/8
Average temp.	°F	70.0	70.0
T.O.V.	Barrels	41,478.11	14,388.61
Water	FT/IN	N/D	N/D
Ambient temp.	°F	60.00	48.00
Tank shell temp.	°F	69.00	67.00
CTsh		1.00011	1.00009
G.O.V.	Barrels	41,482.67	14,389.90
API 60°F		36.50	36.50
V.C.F.	6D	0.99585	0.99585
G.S.V.	barrels 60°F	41,310.52	14,330.18
W.C.F.	MPMS 11.5.1.4.12	0.131496430	0.131496430
W.C.F.	MPMS 11.5.1.4.15	0.133606542	0.133606542
Long Tons		5,432.186	1,884.368
Metric Tons Air		5,519.356	1,914.606

Totals			GSV	NSV
T.O.V.	Barrels	27,089.50	Liters 15°C	4,287,773
G.O.V.	Barrels	27,092.77	Liters 20°C	4,303,826
			Liters 30°C	4,336,428
Density 15°C	kg/l	0.84178	Cu m 15°C	4,287.773
RD 60/60°F		0.84226	Cu m 20°C	4,303.826
API 60°F		36.50	Cu m 60°F	4,289.532
			Barrels 60°F	26,980.34
Average Temp.	°F	70.0	US Gallons 60°F	1,133,174.28
			Metric Tons Vac	3,609.352
Tables used:	6D and W.C.F. MPMS 11.5.1.4.12.		Metric Tons Air	3,604.750
			Long Tons Air	3,547.818
			Short Tons Air	3,973.556
			Pounds	7,947,112

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## Shore Tank Subtotals

Shore tank Subtotals	Totals	25
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### Gross Standard Volume

Liters 15°C	4,287,773	4,287,773
Cu m 15°C	4,287.773	4,287.773
Liters 20°C	4,303,826	4,303,826
Liters 30°C	4,336,428	4,336,428
Cu m 20°C	4,303.826	4,303.826
Cu m 60°F	4,289.532	4,289.532
Barrels 60°F	26,980.34	26,980.34
US gallons 60°F	1,133,174.28	1,133,174.28
Metric Tons Vac	3,609.352	3,609.352
Metric Tons Air	3,604.750	3,604.750
Long Tons Air	3,547.818	3,547.818
Short Tons Air	3,973.556	3,973.556
Pounds Air	7,947,112	7,947,112
Density 15°C		0.84178
API 60°F		36.50
RD 60/60°		0.84226

### Net Standard Volume

Liters 15°C	4,287,773	
Liters 20°C	4,303,826	
Cu m 15°C	4,287.773	
Cu m 20°C	4,303.826	
Cu m 60°F	4,289.532	
Barrels 60°F	26,980.34	
US gallons 60°F	1,133,174.28	
Metric Tons Vac	3,609.352	
Metric Tons Air	3,604.750	
Long Tons Air	3,547.818	
Short Tons Air	3,973.556	
Pounds Air	7,947,112	

### Total Calculated Volume

Liters 15°C		4,287,773
Liters 20°C		4,303,826
Barrels 60°F	26,980.34	26,980.34
US gallons 60°F		1,133,174.28

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Bill of Lading date: 02 Feb 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	Net
Liters 15°C	4,287,773	4,287,773
Liters 20°C	4,303,826	4,303,826
Liters 30°C	4,336,428	4,336,428
Cubic meters 15°C	4,287.773	4,287.773
Cubic meters 20°C	4,303.826	4,303.826
Cubic meters 60°F	4,289.532	4,289.532
Barrels 60°F	26,980.34	26,980.34
US Gallons 60°F	1,133,174.28	1,133,174.28
Metric Tons vac	3,609.352	3,609.352
Metric Tons air	3,604.750	3,604.750
Long Tons	3,547.818	3,547.818
Short Tons	3,973.556	3,973.556
Pounds	7,947,112	7,947,112

These quantities have been determined by measurement of shore tanks.

B/L API 60°F	36.50
B/L Density 15°C	0.84178
B/L RD 60/60°F	0.84226

### Criteria used

Liters 15°C to Cu m 15°C	MPMS 11.5.3 - Annex A	0.001
US Barrels 60°F to US Gallons 60°F	MPMS 11.5 - Annex D	42
US Barrels 60°F to Liters 15°C	MPMS 11.5.1 - 4.20	158.922137
US Barrels 60°F to Cu m 60°F	MPMS 11.5 - Annex D	0.158987304
Metric Tons Air to Metric Tons Vac	MPMS 11.5.3 - 4.5	1.001276515
Barrels 60°F to Metric Tons Air	MPMS 11.5.1 - 4.15	0.1336065416
Barrels 60°F to Long Tons	MPMS 11.5.1 - 4.12	0.1314964304

Signed by: Saybolt representative

Name:

Rank: Saybolt Inspector

Tel. FAX  
Website: E-mail:

All our activities are carried out under Saybolt's terms and conditions, available at [www.corelab.com/saybolt/terms-conditions](http://www.corelab.com/saybolt/terms-conditions)  
SAIL4 COQ V4.1.1.2 2020/05/18

Date: 04 Feb 2021 14:57  
Page 5 of 11

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**Ullage Report Arrival**

Survey Date and Time 01 Feb 2021 13:35

API 60°F

Tank	Innage FT/IN	Innage corr FT/IN	TOV Barrels	Free water FT/IN	Barrels	GOV Barrels	Temp °F	VCF table 6D	GSV Barrels 60°F
1p		nil		NIL					
1s		nil		NIL					
2p		nil		NIL					
2s		nil		NIL					
3p		nil		NIL					
3s		nil		NIL					

**Summary Totals**

On-board figures			Draft		Correction		nil
			FORE	FT/IN	2-0 TRIM	FT/IN	
			AFT	FT/IN	2-0 LIST	°	

**On-board figures**

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

Saybolt representative  
  
*Saybolt Inspector*

Measurements in accordance with API standards.

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## Ullage Report Departure

Survey Date and Time 02 Feb 2021 08:45

API 60°F

36.50

Tank	Innage FT/IN	Innage corr FT/IN	TOV Barrels	Free water FT/IN	Free water Barrels	GOV Barrels	Temp °F	VCF table 6D	GSV Barrels 60°F
1p	12 10-3/4	N/A	4,673.14	N/D		4,673.14	68.40	0.99651	4,656.83
1s	13 1-1/8	N/A	4,732.12	N/D		4,732.12	68.40	0.99651	4,715.60
2p	13 3-1/8	N/A	4,780.73	N/D		4,780.73	68.50	0.99647	4,763.85
2s	13 2-3/4	N/A	4,748.24	N/D		4,748.24	68.50	0.99647	4,731.48
3p	12 11-3/8	N/A	4,122.33	N/D		4,122.33	68.10	0.99664	4,108.48
3s	12 11-1/8	N/A	4,088.32	N/D		4,088.32	68.20	0.99660	4,074.42
Totals			27,144.88			27,144.88			27,050.66

### Summary Totals

On-board figures	OBQ Information	Draft	Correction
GSV Barrels 60°F	27,050.66	FORE FT/IN	10 0 TRIM FT/IN nil
TCV Barrels 60°F	27,050.66	AFT FT/IN	10 0 LIST °
		Trim/List correction applied: No	

On-board figures	Loaded figures	Average Product Temp °F
GSV Liters 15°C	4,298,949	68.4
GSV Liters 20°C	4,315,044	
GSV Liters 30°C	4,347,731	
GSV Cu m 15°C	4,298,949	
GSV Cu m 20°C	4,315,044	
GSV Cu m 60°F	4,300,712	
GSV Barrels 60°F	27,050.66	
GSV US gallons 60	1,136,127.72	
MT vac	3,618.759	
MT air	3,614.145	
LT	3,557.065	
ST	3,983.913	
Pounds	7,967,826	

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

Saybolt representative  
Paul Kilgore  
Saybolt Inspector

Measurements in accordance with API standards.

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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	15-7-6	15-7-6	15 7-3/4	Center
1s	15-8-4	15-8-4	15 8-3/8	Center
2p	15-8-2	15-8-2	15 8-1/4	Center
2s	15-8-4	15-8-4	15 8-1/4	Center
3p	15-8-4	15-8-4	15 8-1/2	Center
3s	15-8-0	15-8-0	15 8	Center

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

Draft		Before		After	
FWD	FT/IN	2-0	FT/IN	10 0	
AFT	FT/IN	2-0	FT/IN	10 0	

### Measurement data Before Operations

Survey Date and Time	01 Feb 2021 13:35	Gauge equipment type	Saybolt equipment
		Gauge equipment used	Manual tape
		Temp equipment type	Saybolt equipment
		Temp equipment used	Portable Electronic Thermometer

### Measurement data After Operations

Survey Date and Time	02 Feb 2021 08:45	Gauge equipment type	Saybolt equipment
Inspector Equipment used for verification?	No	Gauge equipment used	Manual tape
		Gauge equipment number	20008
Water Measurement Method	Paste - Kolor Kut	Temp equipment type	Saybolt equipment
Connector Type	2"	Temp equipment used	Portable Electronic Thermometer
Weather Condition	Cloudy	Temp equipment number	MK2S 1076
Sea Condition	Calm (glassy) - 0 m (0 ft)		

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

Saybolt representative  
Paul Kilgore  
*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:

Capacity of shoreline from tankside to ships manifold	700
Shore tank(s) used	25
Tanks API 60°F	
Shore line(s) used	94
Shore line API 60°F	
Ship tank(s) used	3W
Ships API 60°F	

### Shore Line Displacement Comparison

		Observed Volume Barrels	Temperature °F	Standard Volume Barrels
<b>Shore</b>				
A	Shore tank 25 quantity before	41,478.11		
B	Shore tank 25 quantity after	40,693.83		
C	Shore tank difference (A-B)	784.28		
D	Shore tank quantity before	0		
E	Shore tank quantity after			
F	Shore tank difference (D-E)	0		
G	Total shore difference (C+F)	784.28		
<b>Vessel</b>				
K	Ship tanks quantity before			
L	Ship tanks quantity after	736.69		
M	Ships difference (L-K)	736.69		
N	Ship line quantity			
O	Difference including Ship line (M+N)	736.69		
<b>Totals</b>				
Difference Ship vs Shore (O-G)		Δ Quantity	Δ %	
Observed Volume Barrels		-47.59	-6.07	
Standard Volume Barrels				

Signed by: Ship's representative  
Name:  
Rank:

Shore representative  
  
Loading Master

Saybolt representative  
DB  
Saybolt Inspector

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## Sample Report

Grade	Description	Sealed	Distribution	Amount	Volume
EHC 45	st 25 open avg	Open	Retain	1	1 quarts
EHC 45	1W-3W Final Average	Sealed	Retain	6	1 Quarts
Total Samples				7	

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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## API Checklist Loading

Before Loading	Standards Ref.	
Participated in the key meeting	API 17.1	Yes
Closed / restricted measurement and sampling equipment used onboard	API 17.2	Yes
Vessel capacity tables apply, without adjustments, to gauge point used	US Customs	Yes
Recorded vessel capacity table reference gauge heights before gauging	API 17.1	Yes
Discussed measurements with US Customs inspector before proceeding	US Customs	Yes
Used Saybolt calibrated gauging and temperature equipment	API 3.1a	Yes
Pre-loading tank inspection completed and tanks accepted	API 17.8	Yes
Recorded shore automatic gauges and temperatures	API 17.1	Yes
Manual gauging not permitted / possible; vessel's automatic gauges used	API 17.2	Yes
Personally measured shore product, free water & temperature	API 3.1a	Yes
Measured / recorded ambient air temperature for shell expansion calculation	API 12.1	Yes
Obtained shore samples using Manual sampling or Automatic sampling	API 8.1/8.2	Manual
Automatic sampling pot inspected for cleanliness	API 17.1	Yes
Shore line sample at dock taken before loading	API 17.1	Yes
Recorded vessel's draft readings before loading	API 17.1	Yes
Check sea valve security and recorded seal numbers before loading	API 17.1	Yes
Every cargo tank gauged or visually verified for OBQ	API 17.4	Yes
Measured OBQ using Saybolt equipment at low end of tank	API 17.4	Yes
OBQ measured at points other than the reference gauge point	API 17.4	Yes
Calculations (or tables) for trim and wedge were used as applicable	API 17.4	Yes
OBQ was sampled	API 17.1	Yes
OBQ temperature was measured	API 17.1	Not Applicable
First foot samples were taken before loading commenced	API 17.1	Not Applicable
Bunker quantities were recorded	API 17.1	Not Applicable
Verified shore line capacity and fill	API 17.6	Yes
After Loading	Standards Ref.	
Line sample taken during loading	API 17.1	Not Applicable
Time Log Prepared	API 17.1	Yes
Recorded vessel's draft readings after loading	API 17.1	Yes
Check sea valve security and recorded seal numbers after loading	API 17.1	Not Applicable
Bunker quantities were recorded after loading	API 17.1	Not Applicable
Shore line fill verified after vessel loading	API 17.6	Not Applicable
Personally measured shore product, free water & temperature	API 3.1a	Yes
Measured / recorded ambient air temperature for shell expansion calculation	API 12.1	Yes
Vessel deck lines drained into cargo tanks before gauging	API 17.1	Yes
Measured vessel's cargo, slops, free water, non-cargo areas & temperatures	API 17.2	Yes
Inspected ballast tanks for presence of cargo	API 17.1	Not Applicable
Automatic sampling inspected and appeared to be functioning properly	API 17.1	Not Applicable
Loadport samples placed on board; receipt signed by vessel's representative	API 17.1	Not Applicable
Vessel Experience Factor data obtained from vessel's records	API 17.1	Not Applicable
Appropriate Letters of Protest issued and signed before leaving job site	API 17.1	Yes
Copies of meter tickets and meter proving records obtained	API 17.1	Not Applicable
Meters were proved before or after cargo transfer	API 17.1	Not Applicable