

EXXONMOBIL CHEMICAL CO
22777 Springwoods Village Parkway
77389 Spring
United States
Ms. W.M. Lau Wong
5003856-10 / Trip # USEBARGARO-2010-006



Job No 13052/00002109.0000/01/I/20
Report date 08 Sep 2020
Installation Houston, United States of America, ExxonMobil Baytown

Barge HTCO 3118
Product Toluene

Bill of Lading Date: 05-Sep-2020

Summary Loading

Volume and Weight Data

GSV Figures	Loaded excl OBQ	Bill of Lading	Δ Quantity	Δ %
Liters 15°C	3,140,739	3,169,230	-28,491	-0.90
Cu m 15°C	3,140.739	3,169.230	-28.491	-0.90
Cu m 60°F	3,142.069	3,170.573	-28.504	-0.90
Barrels 60°F	19,763.02	19,942.30	-179.28	-0.90
Gallons 60°F	830,046.84	837,576.60	-7,529.76	-0.90
Metric Tons Vac	2,736.620	2,761.442	-24.822	-0.90
Kilos Vac	2,736,620	2,761,442	-24,822	-0.90
Metric Tons Air	2,733.261	2,758.055	-24.794	-0.90
Long Tons Air	2,690.093	2,714.496	-24.403	-0.90
Short Tons Air	3,012.904	3,040.236	-27.332	-0.90
Pounds Air	6,025,808	6,080,471	-54,663	-0.90

	Dens 15°C Vac	API 60°F	RD 60/60°F
Vessel Loaded	0.87080		0.87131
Bill of Lading	0.87080	30.90	0.87131

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Time Log - 1

02 Sep 2020 (Wednesday)	
16:10	Notice of Readiness Tendered
04 Sep 2020 (Friday)	
15:50	Object arrived at Installation
16:15	Gangway in Place
16:15	Moored Alongside Berth (All Fast)
16:20	Inspector notified
17:00	Inspector 1 arrived
17:03	Commenced Initial Inspection
17:03	Saybolt onboard before Operation
17:20	Completed Initial Inspection, Tank(s) Inspected and Accepted
18:00	Inspector 1 departed
18:15	Inspector Notified of 28 Dockline Passing
19:40	Hose / Arm Connected
20:36	Inspector 2 Arrived at ST 65
20:40	Technician Arrived at ST 65
20:42	Permit Recieved and Signed
20:45	Commenced ST 65 Inspection Open
21:00	Inspector Notified by C2 that ST 65 was ready
21:02	Completed ST 65 Inspection Open
21:10	Completed Calcs and Sop Set
21:17	Gauge Ticket Complete and Sent
21:36	Inspector 2 departed
23:05	COMMENCED LOADING
05 Sep 2020 (Saturday)	
01:00	Suspended Loading for LFV
01:02	Inspector Notified
01:10	Inspector 1 Arrived at 4 Dock for LFV
01:12	Commenced Barge LFV Inspection
01:30	Completed Barge LFV Inspection
01:35	Completed Barge LFV Calcs
01:38	Inspector 1 Departed 4 Dock
01:42	Inspector 2 Arrived at ST 65 for LFV Inspection
01:50	Commenced ST 65 LFV Inspection
02:00	Completed ST 65 LFV Inspection
02:05	Completed ST 65 LFV Calcs
02:08	Inspector 1 Arrived to Atline
02:10	LFV Gauge Ticket Complete and Sent
02:15	1st Foot Samples Delivered ID#1004777
02:17	Inspector 1 Departed At Line
02:42	Inspector 2 departed ST 65 after LFV
02:50	Resumed loading after LFV
15:50	Suspended loading at refinery request

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Time Log - 2

05 Sep 2020 (Saturday)

18:20	Resumed Loading after new stop
19:00	COMPLETED LOADING
19:15	Inspector 1 & 2 arrived
19:36	Saybolt onboard after Operation
19:40	Commenced Final Inspection
20:05	Hose / Arm Disconnected
20:10	Completed Final Inspection and Calculations, Tank(s) Measured and Sampled
20:15	Completed Barge Final Calcs
20:20	Documents on Board
20:55	Inspector Arrived at ST 65 for Final Inspection
20:55	Technician Arrived at ST 65 with Permit
20:58	Permit Received and Signed
21:05	Commenced ST 65 Final Inspection
21:25	Completed ST 65 Final Inspection
21:30	Completed ST 65 Final Calcs
21:32	Gauge Ticket Complete and Sent
21:50	Final Samples Delivered to XOM Lab ASN# 7846752
22:15	Inspector 1 & 2 departed
23:00	Object Sailed / Departed

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Certificate of Quantity

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

Liters 15°C	3,169,230
Cubic meters 15°C	3,169.230
Cubic meters 60°F	3,170.573
Barrels 60°F	19,942.30
Gallons 60°F	837,576.60
Metric Tons vac	2,761.442
Kilos vac	2,761,442
Metric Tons air	2,758.055
Long Tons	2,714.496
Short Tons	3,040.236
Pounds	6,080,471

These quantities have been determined by Shore tank measurements.

B/L Api 60°F	30.90
B/L Density 15°C Vac	0.87080
B/L Rd 60/60°F	0.87131

Criteria used

Barrels 60°F to Cu M 15°C	ASTM Table 4	0.15893
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	1.000973747
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 65 at ExxonMobil

Shore tank measurement		Open	Close
Date / Time of measurement		04 Sep 2020 21:02	05 Sep 2020 21:32
Average Innage	FT/IN	35-2-1	8-2-0
Average temp.	°F	93.1	91.7
T.O.V.	Barrels	26,326.69	5,991.43
Water	FT/IN	ND	ND
Ambient temp.	°F	84.20	84.20
Tank shell temp.	°F	92	91
CTsh		1.00040	1.00038
G.O.V.	Barrels	26,336.87	5,993.37
Api 60°F		30.90	30.90
V.C.F.	D1555-09	0.98052	0.98134
Barrels 60°F		25,823.83	5,881.53
Gallons 60°F		1,084,601	247,024
Pounds per Gallon 60°F		7.2596	7.2596
Pounds		7,873,768	1,793,297

Totals			Volume		Mass/Weight	
T.O.V.	Barrels	20,335.26	Liters 15°C	3,169,230	Metric Tons Vac	2,761.442
G.O.V.	Barrels	20,343.50	Cu m 15°C	3,169.230	Kilos Vac	2,761,442
			Cu m 60°C	3,170.573	Metric Tons Air	2,758.055
Density 15°C vac	kg/l	0.87080	Barrels 60°F	19,942.30	Long Tons Air	2,714.496
RD 60/60°F		0.87131	Gallons 60°F	837,576.60	Short Tons Air	3,040.236
API 60°F		30.90			Pounds	6,080,471

Delivered temp. °F 93.5

Tables used ASTM Table D1555-09

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Ullage Report Arrival

Survey Date and Time 04 Sep 2020 17:20

Api 60°F

30.90

Tank	ullage FT/IN	ullage corr FT/IN	TOV Barrels	FT/IN	Free water Barrels	GOV Barrels	Temp °F	VCF D1555-09	GSV Barrels 60°F
1P	ND			ND			60.00	1.00000	
1S	ND			ND			60.00	1.00000	
2P	ND			ND			60.00	1.00000	
2S	ND			ND			60.00	1.00000	
3P	17-2-4		35.74	ND		35.74	60.00	1.00000	35.74
3S	ND			ND			60.00	1.00000	
Totals			35.74			35.74			35.74

Summary Totals

On-board figures		Pre-loaded parcel	Draft		Correction		
TOV Barrels	35.74		FORE	FT/IN	2-0 TRIM	FT/IN	nil
Free water			AFT	FT/IN	2-0 LIST	°	
GOV Barrels	35.74		Trim/List correction applied:				
On-board figures							
Liters 15°C	5,680		Average Product Temp °F 60.0				
Cu m 15°C	5.680		Calcs. based on: D1555-09				
Cu m 60°F	5.682						
Barrels 60°F	35.74						
Gallons 60°F	1,501.08						
Metric Tons Vac	4.949						
Metric Tons Air	4.943						
Kilos Vac	4,949						
Long Tons Air	4.865						
Short Tons Air	5.449						
Pounds Air	10,897						

Signed by: Ship's representative
Name:
Rank:

Saybolt representative
TH
Saybolt Inspector

Measurements in accordance with API standards.

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Ullage Report Departure

Survey Date and Time 05 Sep 2020 20:15

Api 60°F

30.90

Tank	ullage FT/IN	ullage corr FT/IN	TOV Barrels	Free water Barrels	GOV Barrels	Temp °F	VCF D1555-09	GSV Barrels 60°F
1P	7-9-6		3,337.80	ND	3,337.80	92.00	0.98116	3,274.92
1S	7-9-2		3,361.86	ND	3,361.86	91.80	0.98128	3,298.93
2P	7-8-6		3,429.45	ND	3,429.45	91.90	0.98122	3,365.04
2S	7-9-0		3,442.52	ND	3,442.52	92.10	0.98110	3,377.46
3P	8-0-2		3,292.29	ND	3,292.29	92.00	0.98116	3,230.26
3S	8-0-4		3,314.19	ND	3,314.19	91.80	0.98128	3,252.15
Totals			20,178.11		20,178.11			19,798.76

Summary Totals

On-board figures	Pre Loaded Parcel	Draft	Correction
TOV Barrels	20,178.11 Pounds	10,897 FORE FT/IN	8-6 TRIM FT/IN nil
Free water	Gallons 60°F	1,501.08 AFT FT/IN	8-6 LIST °
GOV Barrels	20,178.11	Trim/List correction applied:	
On-board figures	Loaded figures		
Liters 15°C	3,146,419	Liters 15°C loaded	3,140,739
Cu m 15°C	3,146.419	Cu m 15°C loaded	3,140.739
Cu m 60°F	3,147.751	Cu m 60°F loaded	3,142.069
Barrels 60°F	19,798.76	Barrels 60°F loaded	19,763.02
Gallons 60°F	831,547.92	Gallons 60°F loaded	830,046.84
Metric Tons Vac	2,741.569	Metric Tons Vac loaded	2,736.620
Metric Tons Air	2,738.204	Metric Tons Air loaded	2,733.261
Kilos Vac	2,741,569	Kilos Vac loaded	2,736,620
Long Tons Air	2,694.958	Long Tons Air loaded	2,690.093
Short Tons Air	3,018.353	Short Tons Air loaded	3,012.904
Pounds Air	6,036,705	Pounds Air loaded	6,025,808

Signed by: Ship's representative
Name:
Rank:

Saybolt representative
C.STEWART
Saybolt Inspector

Measurements in accordance with API standards.

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Line Displacement Report Chemical

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	500
Shore tank(s) used	65
Tanks density	30.9 30.90
Shore line(s) used	28
Shore line API 60°F	30.90000
Ship tank(s) used	3P,3S
Ships API 60°F	30.90000

Shore Line Displacement Comparison

	Observed Volume Barrels	Temperature	Standard Volume Barrels
Shore			
A Shore tank 65 quantity before	26,326.69	0	0
B Shore tank 65 quantity after	23,817.96	0	0
C Shore tank difference (A-B)	2,508.73		
D Shore tank quantity before	0	0	0
E Shore tank quantity after	0	0	0
F Shore tank difference (D-E)	0		0
G Total shore difference (C+F)	2,508.73		0
Vessel			
K Ship tanks quantity before	35.74	0	0
L Ship tanks quantity after	2,512.44	0	0
M Ships difference (L-K)	2,476.70		0
N Ship line quantity	0		0
O Difference including Ship line (M+N)	2,476.70		0
Totals			
Difference Ship vs Shore (O-G)	Δ Quantity	Δ %	
Observed Volume Barrels	-32.03	-1.28	
Standard Volume Barrels	0	0	

Signed by: Ship's representative
Name:
Rank:

Shore representative
Loading Master

Saybolt representative
C.STEWART
Saybolt Inspector

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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:

Difference shore to barge is as follows :

Shore delivered - 19,942.30 GSV BBLs

Barge received - 19,763.02 GSV BBLs

Difference - 179.28 GSV BBLs

Percentage - 0.90%

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
Operations
Loading Master

Saybolt representative
Calvin Stewart
Saybolt Inspector

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Sample Report

Grade	Description	Sealed	Distribution	Amount	Volume
Toluene	Shoreline at loading arm before loading	Open	Retain	1	1 quarts
Toluene	ST 65 -BEFORE LOADING 1X1	Open	Retain	1	1 quarts
Toluene	3P,3S FIRST FOOT 1X1	Open	Retain	2	1 quarts
Toluene	1x1 Qt Each Tank After Loading	Open	Retain	6	1 quarts
Total Samples				10	

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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Reference Height and Measurement data report

Manual Tank Heights

Tank	Calibrated Reference	Found Reference Height in FT/IN		Gauging Location
	Height in FT/IN	Before	After	
1P	17-3-6	17-3-6	17-3-6	Center
1S	17-4-0	17-4-0	17-4-0	Center
2P	17-3-4	17-3-4	17-3-4	Center
2S	17-3-6	17-3-6	17-3-6	Center
3P	17-3-2	17-3-2	17-3-2	Center
3S	17-3-4	17-3-4	17-3-4	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	8-6
AFT	FT/IN	2-0	FT/IN	8-6

Measurement data Before Operations

Survey Date and Time	04 Sep 2020 17:20	Gauge equipment type	Saybolt equipment
Water Measurement Method	UTI	Gauge equipment used	UTI
Connector Type	QC	Gauge equipment number	23961
Weather Condition	Sunny		
Sea Condition	Calm (rippled) - 0 to 0.1 m (0.00 to 0.33 ft)		

Measurement data After Operations

Survey Date and Time	05 Sep 2020 20:15	Gauge equipment type	Saybolt equipment
Water Measurement Method	UTI	Gauge equipment used	UTI
Connector Type	QUICK	Temp equipment type	Saybolt equipment
		Temp equipment used	UTI

Signed by: Ship's representative
Name:
Rank:

Saybolt representative
C.STEWART
Saybolt Inspector

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Void Space/Ballast Reports

Compartment/ Tank	Product	Before	Quantity Barrels	Product	After	Quantity Barrels
FWD			ND			ND
PORT			ND			ND
STBD			ND			ND
AFT			ND			ND

* 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 Barrels

Tanks used by ship for previous ballast voyage?

Signed by: Ship's representative

Name:

Rank:

Saybolt representative

TH

Saybolt Inspector