To Whom It May Concern

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Saybolt
A CORE LABORATORIES COMPANY

Job No 13052/00002186.0000/01/I/20
Report date 03 Nov 2020
Installation Houston, United States of America, ExxonMobil Baytown

Barge CBC 309
Product EHC 45

Bill of Lading date: 02-Nov-2020

Summary Loading (GSV)

Gross Standard Volume Data

GSV Figures	Loaded excl OBQ	Bill of Lading	Δ Quantity	Δ %
Cu m 15°C	4,082.710	4,091.729	-9.019	-0.22
Cu m 20°C	4,098.037	4,107.067	-9.030	-0.22
Cu m 60°F	4,084.384	4,093.425	-9.041	-0.22
Barrels 60°F	25,690.00	25,746.87	-56.87	-0.22
US Gallons 60°F	1,078,980.000	1,081,368.540	-2,388.540	-0.22
Metric Tons Vac	3,434.689	3,441.563	-6.874	-0.20
Metric Tons Air	3,430.307	3,437.172	-6.865	-0.20
Long Tons Air	3,376.131	3,382.888	-6.757	-0.20
Short Tons Air	3,781.267	3,788.835	-7.568	-0.20
Pounds	7,562,534	7,577,670	-15,136	-0.20

GSV Figures (VEF Adjusted)	Loaded adjusted by VEF	Bill of Lading	Δ Quantity	Δ %
Barrels 60°F	25,690.00	25,746.87	-56.87	-0.22

	Density 15°C	Density 20°C	API 60°F	RD 60/60°F	S&W%
Vessel Loaded	0.84128		36.60	0.84176	
Bill of Lading	0.84128		36.60	0.84176	

General Data	
Vessel Loaded Ratio	0.99779

Date: 03 Nov 2020

saybolt , 703 S FM 565, 77523 baytown texas , united states
Tel. FAX
Website: E-mail:troy.hall@corelab.com

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Saybolt
A CORE LABORATORIES COMPANY

Job No	13052/00002186.0000/01/I/20
Report date	03 Nov 2020
Installation	Houston, United States of America, ExxonMobil Baytown
Barge	**CBC 309**
Product	**EHC 45**

Bill of Lading date: 02-Nov-2020

Time Log

20 Oct 2020 (Tuesday)	
06:00	NOR Tendered
31 Oct 2020 (Saturday)	
22:00	Barge Called In
22:50	Object arrived at Installation
23:10	Moored Alongside Berth (All Fast)
01 Nov 2020 (Sunday)	
00:18	Saybolt onboard before Operation
00:20	Commenced Initial Inspection
00:35	Completed Initial Inspection, Tank(s) Inspected and Accepted
01:20	Shore Tank No. 624 Gauged Open
02:15	Hose / Arm Connected
02:40	COMMENCED LOADING
02:53	Suspended Loading
03:05	Commenced inspection line displacement
03:15	Completed inspection line displacement
04:30	Resume Loading
12:00	Inspector Arrived at ST 624 Close and 625 Open
12:15	Tech Arrived at Tanks
12:35	Shore Tank No. 624 Gauged Close
12:48	Shore Tank No. 625 Gauged Open
21:35	Shore Tank No. 25 Gauged Open
02 Nov 2020 (Monday)	
06:10	COMPLETED LOADING
06:50	Saybolt onboard after Operation
06:55	Commenced Final Inspection
07:25	Completed Final Inspection and Calculations, Tank(s) Measured and Sampled
07:25	Hose / Arm Disconnected
08:57	Shore Tank No. 25 Gauged Close
10:30	Object Sailed / Departed

Date: 03 Nov 2020

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Report date 03 Nov 2020
Installation Houston, United States of America, ExxonMobil Baytown

Barge CBC 309
Product EHC 45

Bill of Lading date: 02-Nov-2020

Shore Tank Report Single

Shore tank 624

Shore tank measurement		Open	Close
Date / Time of measurement		01 Nov 2020 01:20	01 Nov 2020 12:35
Average Innage	FT/IN	25-1-5	1-10-1
Average temp.	°F	79.1	79.4
T.O.V.	Barrels	12,713.12	973.24
Water	FT/IN	ND	ND
Ambient temp.	°F	61.00	79.00
Tank shell temp.	°F	77.00	79.00
CTsh		1.00021	1.00024
G.O.V.	Barrels	12,715.79	973.47
API 60°F		36.80	36.80
V.C.F.	6D	0.99205	0.99192
G.S.V.	barrels 60°F	12,614.70	965.60
W.C.F.	MPMS 11.5.1.4.12	0.131261699	0.131261699
W.C.F.	MPMS 11.5.1.4.15	0.133368044	0.133368044
Long Tons		1,655.827	126.746
Metric Tons Air		1,682.398	128.780

Totals				GSV	NSV
T.O.V.	Barrels	11,739.88	Cu m 15°C	1,851.281	
G.O.V.	Barrels	11,742.32	Cu m 20°C	1,858.231	
			Cu m 60°F	1,852.059	
Density 15°C	kg/l	0.84029	Barrels 60°F	11,649.10	
RD 60/60°F		0.84076	US Gallons 60°F	489,262.200	
API 60°F		36.80	Metric Tons Vac	1,555.605	
			Metric Tons Air	1,553.618	
Average Temp.	°F	79.1	Long Tons Air	1,529.081	
			Short Tons Air	1,712.571	
Tables used:	6D and W.C.F. MPMS 11.5.1.4.12.		Pounds	3,425,142	

Date: 03 Nov 2020

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Barge CBC 309
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Bill of Lading date: 02-Nov-2020

Shore Tank Report Single

Shore tank 25

Shore tank measurement		Open	Close
Date / Time of measurement		01 Nov 2020 21:35	02 Nov 2020 08:57
Average Innage	FT/IN	23-7-1	16-2-5
Average temp.	°F	81.2	80.0
T.O.V.	Barrels	45,540.28	31,305.77
Water	FT/IN	ND	ND
Ambient temp.	°F	60.00	58.00
Tank shell temp.	°F	79.00	77.00
CTsh		1.00024	1.00021
G.O.V.	Barrels	45,551.21	31,312.34
API 60°F		36.50	36.50
V.C.F.	6D	0.99119	0.99169
G.S.V.	barrels 60°F	45,149.90	31,052.13
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		5,937.051	4,083.244
Metric Tons Air		6,032.322	4,148.768

Totals				GSV	NSV
T.O.V.	Barrels	14,234.51	Cu m 15°C	2,240.448	
G.O.V.	Barrels	14,238.87	Cu m 20°C	2,248.836	
			Cu m 60°F	2,241.366	
Density 15°C	kg/l	0.84178	Barrels 60°F	14,097.77	
RD 60/60°F		0.84226	US Gallons 60°F	592,106.340	
API 60°F		36.50	Metric Tons Vac	1,885.958	
			Metric Tons Air	1,883.554	
Average Temp.	°F	83.8	Long Tons Air	1,853.807	
			Short Tons Air	2,076.264	
Tables used:	6D and W.C.F. MPMS 11.5.1.4.12.		Pounds	4,152,528	

Date: 03 Nov 2020

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Barge CBC 309
Product EHC 45

Bill of Lading date: 02-Nov-2020

		Shore Tank Subtotals	
Shore tank Subtotals	Totals	624	25
Gross Standard Volume			
Cu m 15°C	4,091.729	1,851.281	2,240.448
Cu m 20°C	4,107.067	1,858.231	2,248.836
Cu m 60°F	4,093.425	1,852.059	2,241.366
Barrels 60°F	25,746.87	11,649.10	14,097.77
US gallons 60°F	1,081,368.540	489,262.200	592,106.340
Metric Tons Vac	3,441.563	1,555.605	1,885.958
Metric Tons Air	3,437.172	1,553.618	1,883.554
Long Tons Air	3,382.888	1,529.081	1,853.807
Short Tons Air	3,788.835	1,712.571	2,076.264
Pounds Air	7,577,670	3,425,142	4,152,528
Density 15°C		0.84029	0.84178
API 60°F		36.80	36.50
RD 60/60°		0.84076	0.84226
Net Standard Volume			
Cu m 15°C	4,091.729		
Cu m 20°C	4,107.067		
Cu m 60°F	4,093.425		
Barrels 60°F	25,746.87		
US gallons 60°F	1,081,368.540		
Metric Tons Vac	3,441.563		
Metric Tons Air	3,437.172		
Long Tons Air	3,382.888		
Short Tons Air	3,788.835		
Pounds Air	7,577,670		
Total Calculated Volume			
Barrels 60°F	25,746.87	11,649.10	14,097.77
US gallons 60°F		489,262.200	592,106.340

Date: 03 Nov 2020

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Barge CBC 309
Product EHC 45

Bill of Lading date: 02 Nov 2020

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
Cubic meters 15°C	4,091.729	4,091.729
Cubic meters 20°C	4,107.067	4,107.067
Cubic meters 60°F	4,093.425	4,093.425
Barrels 60°F	25,746.87	25,746.87
US Gallons 60°F	1,081,368.540	1,081,368.540
Metric Tons vac	3,441.563	3,441.563
Metric Tons air	3,437.172	3,437.172
Long Tons	3,382.888	3,382.888
Short Tons	3,788.835	3,788.835
Pounds	7,577,670	7,577,670

These quantities have been determined by measurement of shore tanks.

B/L API 60°F	36.60
B/L Density 15°C	0.84128
B/L RD 60/60°F	0.84176

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 Cu m 60°F	MPMS 11.5 - Annex D	0.158987304
Metric Tons Air to Metric Tons Vac	MPMS 11.5.3 - 4.5	1.001277364
Barrels 60°F to Metric Tons Air	MPMS 11.5.1 - 4.15	0.1335269477
Barrels 60°F to Long Tons	MPMS 11.5.1 - 4.12	0.1314180936
Long Tons to Short Tons	MPMS 11.5 - Annex D	1.12

Signed by: Saybolt representative
Name:
Rank: Saybolt Inspector

Date: 03 Nov 2020

saybolt , 703 S FM 565, 77523 baytown texas , united states
Tel FAX
Website: E-mail:troy.hall@corelab.com

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Report date 03 Nov 2020
Installation Houston, United States of America, ExxonMobil Baytown

Barge CBC 309
Product EHC 45

Bill of Lading date: 02-Nov-2020

Ullage Report Arrival

Survey Date and Time

API 60°F

Tank	ullage FT/IN	ullage corr FT/IN	TOV Barrels	Free water FT/IN	Free water Barrels	GOV Barrels	Temp °F	VCF table 6D	GSV Barrels 60°F
1p	nd	nd		nd			60.00	1.00000	
1s	nd	nd		nd			60.00	1.00000	
2p	nd	nd		nd			60.00	1.00000	
2s	nd	nd		nd			60.00	1.00000	
3p	nd	nd		nd			60.00	1.00000	
3s	nd	nd		nd			60.00	1.00000	

Summary Totals

On-board figures

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

On-board figures

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

Saybolt representative

Saybolt Inspector

Date: 03 Nov 2020

Measurements in accordance with API standards.

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Barge CBC 309
Product EHC 45

Bill of Lading date: 02-Nov-2020

Ullage Report Departure

Survey Date and Time 02 Nov 2020 07:25 API 60°F 36.60

Tank	ullage FT/IN	ullage corr FT/IN	TOV Barrels	Free water FT/IN	Free water Barrels	GOV Barrels	Temp °F	VCF table 6D	GSV Barrels 60°F
1p	12-0-2		4,421.17	ND		4,421.17	78.40	0.99235	4,387.35
1s	12-0-6		4,438.12	ND		4,438.12	78.20	0.99243	4,404.52
2p	12-0-6		4,337.55	ND		4,337.55	79.70	0.99181	4,302.03
2s	11-11-6		4,305.26	ND		4,305.26	79.30	0.99197	4,270.69
3p	11-8-6		4,192.98	ND		4,192.98	78.70	0.99222	4,160.36
3s	11-9-2		4,197.71	ND		4,197.71	78.70	0.99222	4,165.05
Totals			25,892.79			25,892.79			25,690.00

Summary Totals

On-board figures		OBQ Information		Draft		Correction		
GSV Barrels 60°F	25,690.00			FORE	FT/IN	10-0 TRIM	FT/IN	nil
TCV Barrels 60°F	25,690.00			AFT	FT/IN	10-0 LIST	°	

On-board figures		Loaded figures			
GSV Cu m 15°C	4,082.710	Cu m 15°C Loaded	4,082.710	Average Product Temp °F	78.8
GSV Cu m 20°C	4,098.037	Cu m 20°C Loaded	4,098.037		
GSV Cu m 60°F	4,084.384	Cu m 60°F Loaded	4,084.384		
GSV Barrels 60°F	25,690.00	GSV Loaded Bbls 60°F	25,690.00		
GSV US gallons 60	1,078,980.000	GSV Loaded US Gls 60°F	1,078,980.000		
MT vac	3,434.689	MT Vac Loaded	3,434.689		
MT air	3,430.307	MT Air Loaded	3,430.307		
LT	3,376.131	LT Loaded	3,376.131		
ST	3,781.267	ST Loaded	3,781.267		
Pounds	7,562,534	Pounds Loaded	7,562,534		

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

Saybolt representative

Saybolt Inspector

Measurements in accordance with API standards.

Date: 03 Nov 2020

saybolt , 703 S FM 565, 77523 baytown texas , united states
Tel. FAX
Website: E-mail:troy.hall@corelab.com

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Report date 03 Nov 2020
Installation Houston, United States of America, ExxonMobil Baytown

Barge CBC 309
Product EHC 45

Bill of Lading date: 02-Nov-2020

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	16-3-4	16-3-4	16-3-4	Center
1s	16-3-6	16-3-6	16-3-6	Center
2p	16-4-0	16-4-0	16-4-0	Center
2s	16-3-4	16-3-4	16-3-4	Center
3p	16-3-4	16-3-4	16-3-4	Center
3s	16-3-6	16-3-6	16-3-4	Center

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

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

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 Nov 2020 07:25

Gauge equipment type	Saybolt equipment
Gauge equipment used	Manual tape
Gauge equipment number	20010
Temp equipment type	Saybolt equipment
Temp equipment used	Portable Electronic Thermometer
Temp equipment number	1025

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

Saybolt representative
Saybolt Inspector
Date: 03 Nov 2020

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Barge CBC 309
Product EHC 45

Bill of Lading date: 02-Nov-2020

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	250	
Shore tank(s) used	624	
Tanks API 60°F	36.60	36.60
Shore line(s) used	94	
Shore line API 60°F	36.60	
Ship tank(s) used	3p	
Ships API 60°F	36.60	

Shore Line Displacement Comparison

			Observed Volume Barrels	Temperature °F	Standard Volume Barrels
Shore					
A	Shore tank 624 quantity before		12,713.130		
B	Shore tank 624 quantity after		12,340.440		
C	Shore tank difference	(A-B)	372.69		
D	Shore tank quantity before		0		
E	Shore tank quantity after				
F	Shore tank difference	(D-E)	0		
G	Total shore difference	(C+F)	372.69		
Vessel					
K	Ship tanks quantity before		0		
L	Ship tanks quantity after		383.920		
M	Ships difference	(L-K)	383.92		
N	Ship line quantity				
O	Difference including Ship line	(M+N)	383.92		
Totals					
Difference Ship vs Shore		(O-G)	Δ Quantity	Δ %	
Observed Volume		Barrels	11.23	3.01	
Standard Volume		Barrels			

Signed by: Ship's representative
Name:
Rank:

Shore representative

Loading Master

Saybolt representative
tah
Saybolt Inspector

Date: 03 Nov 2020

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Tel. FAX
Website: E-mail:troy.hall@corelab.com

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Barge CBC 309
Product EHC 45

Bill of Lading date: 02-Nov-2020

Sample Report

Grade	Description	Sealed	Distribution	Amount	Volume
EHC 45	Tb CBC 309:Running from barge tanks after loading	Open	Retain	6	1 quarts
		Total Samples		**6**	

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.

Date: 03 Nov 2020

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Installation Houston, United States of America, ExxonMobil Baytown

Barge CBC 309
Product EHC 45

Bill of Lading date: 02-Nov-2020

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	Not Applicable
Recorded vessel capacity table reference gauge heights before gauging	API 17.1	Yes
Discussed measurements with US Customs inspector before proceeding	US Customs	Not Applicable
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	Not Applicable
Shore line sample at dock taken before loading	API 17.1	Not Applicable
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 verifed 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	Yes
First foot samples were taken before loading commenced	API 17.1	Yes
Bunker quantities were recorded	API 17.1	Yes
Verified shore line capacity and fill	API 17.6	Yes

After Loading	Standards Ref.	
Line sample taken during loading	API 17.1	No
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	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
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	Not Applicable
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	Before

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