

**To Whom It May Concern**

This copy is being provided for courtesy purposes only, and does not give any person or company other than our named client a right to rely on these results.  
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Job No 13052/00002189.0000/01/I/20  
Report date 28 Oct 2020  
Installation Houston, United States of America, ExxonMobil Baytown

Barge CBC 67  
Product AC 2500

Bill of Lading date: 28-Oct-2020

**Summary Loading (GSV)****Gross Standard Volume Data**

GSV Figures	Loaded excl OBQ	Bill of Lading	Δ Quantity	Δ %
Liters 15°C	1,546,555	1,545,523	1,032	0.07
Cu m 15°C	1,546.555	1,545.523	1.032	0.07
Cu m 60°F	1,547.158	1,546.126	1.032	0.07
Barrels 60°F	9,731.33	9,724.84	6.49	0.07
US Gallons 60°F	408,715.86	408,443.28	272.58	0.07
Metric Tons Vac	1,378.117	1,377.198	0.919	0.07
Metric Tons Air	1,376.469	1,375.551	0.918	0.07
Long Tons Air	1,354.730	1,353.827	0.903	0.07
Short Tons Air	1,517.298	1,516.286	1.012	0.07
Pounds	3,034,596	3,032,572	2,024	0.07

GSV Figures (VEF Adjusted)	Loaded adjusted by VEF	Bill of Lading	Δ Quantity	Δ %
Liters 15°C	1,546,555	1,545,523	1,032	0.07
Barrels 60°F	9,731.33	9,724.84	6.49	0.07

	Density 15°C	Density 20°C	API 60°F	RD 60/60°F	S&W%
Vessel Loaded	0.89109		27.20	0.89162	
Bill of Lading	0.89109		27.20	0.89162	

**General Data**

Vessel Loaded Ratio 1.00067

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**Product AC 2500**

Bill of Lading date: 28-Oct-2020

**Time Log**

22 Oct 2020 (Thursday)	
01:40	NOR Tendered
27 Oct 2020 (Tuesday)	
08:00	Barge Called In
12:10	Object arrived at Installation
12:35	Moored Alongside Berth (All Fast)
12:50	Shore Tank No. 1260 Gauged Open
12:55	Saybolt onboard before Operation
13:00	Commenced Initial Inspection
13:20	Completed Initial Inspection, Tank(s) Inspected and Accepted
13:30	COMPLETED LOADING
13:34	Saybolt onboard after Operation
14:50	Hose / Arm Connected
22:45	COMMENCED LOADING
28 Oct 2020 (Wednesday)	
14:10	Commenced Final Inspection
14:40	Hose / Arm Disconnected
15:00	Documents on Board
15:00	Completed Final Inspection and Calculations, Tank(s) Measured and Sampled
15:30	Shore Tank No. 1260 Gauged Close
17:00	Object Sailed / Departed

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)

SALA TML2 V4.1.1.9 20200701

  
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**Shore Tank Report Single**

**Shore tank 1260 at ExxonMobil Baytown**

Shore tank measurement		Open	Close
Date / Time of measurement		27 Oct 2020 21:50	28 Oct 2020 15:30
Average Innage	FT/IN	40-7-0	11-11-2
Average temp.	°F	139.1	138.1
T.O.V.	Barrels	14,230.95	4,199.52
Ambient temp.	°F	64.00	55.00
Tank shell temp.	°F	130.00	128.00
CTsh		1.00087	1.00084
G.O.V.	Barrels	14,243.33	4,203.05
API 60°F		27.20	27.20
V.C.F.	6D	0.96875	0.96915
G.S.V.	barrels 60°F	13,798.23	4,073.39
W.C.F.	MPMS 11.5.1.4.12	0.139213269	0.139213269
W.C.F.	MPMS 11.5.1.4.15	0.141447211	0.141447211
Long Tons		1,920.897	567.070
Metric Tons Air		1,951.721	576.170

Totals			GSV	NSV
T.O.V.	Barrels	10,031.43	Liters 15°C	1,545,523
G.O.V.	Barrels	10,040.28	Cu m 15°C	1,545,523
			Cu m 60°F	1,546.126
Density 15°C	kg/l	0.89109	Barrels 60°F	9,724.84
RD 60/60°F		0.89162	US Gallons 60°F	408,443.28
API 60°F		27.20	Metric Tons Vac	1,377.198
			Metric Tons Air	1,375.551
Average Temp.	°F	139.5	Long Tons Air	1,353.827
			Short Tons Air	1,516.286
Tables used:	6D and W.C.F. MPMS 11.5.1.4.12.		Pounds	3,032,572

Date: 28 Oct 2020

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Bill of Lading date: 28-Oct-2020

**Shore Tank Subtotals**

Shore tank Subtotals	Totals	1260
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**Gross Standard Volume**

Liters 15°C	1,545,523	1,545,523
Cu m 15°C	1,545.523	1,545.523
Cu m 60°F	1,546.126	1,546.126
Barrels 60°F	9,724.84	9,724.84
US gallons 60°F	408,443.28	408,443.28
Metric Tons Vac	1,377.198	1,377.198
Metric Tons Air	1,375.551	1,375.551
Long Tons Air	1,353.827	1,353.827
Short Tons Air	1,516.286	1,516.286
Pounds Air	3,032,572	3,032,572

Density 15°C	0.89109
API 60°F	27.20
RD 60/60°	0.89162

**Net Standard Volume**

Liters 15°C	1,545,523
Cu m 15°C	1,545.523
Cu m 60°F	1,546.126
Barrels 60°F	9,724.84
US gallons 60°F	408,443.28
Metric Tons Vac	1,377.198
Metric Tons Air	1,375.551
Long Tons Air	1,353.827
Short Tons Air	1,516.286
Pounds Air	3,032,572

**Total Calculated Volume**

Liters 15°C	1,545,523
Barrels 60°F	9,724.84
US gallons 60°F	408,443.28

  
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**Barge CBC 67**  
**Product AC 2500**

Bill of Lading date: 28 Oct 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
Liters 15°C	1,545,523	1,545,523
Cubic meters 15°C	1,545.523	1,545.523
Cubic meters 60°F	1,546.126	1,546.126
Barrels 60°F	9,724.84	9,724.84
US Gallons 60°F	408,443.28	408,443.28
Metric Tons vac	1,377.198	1,377.198
Metric Tons air	1,375.551	1,375.551
Long Tons	1,353.827	1,353.827
Short Tons	1,516.286	1,516.286
Pounds	3,032,572	3,032,572

These quantities have been determined by measurement of shore tanks.

B/L API 60°F	27.20
B/L Density 15°C	0.89109
B/L RD 60/60°F	0.89162

**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	158.925314
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	1.001197492
Barrels 60°F to Metric Tons Air	MPMS 11.5.1 - 4.15	0.1414472111
Barrels 60°F to Long Tons	MPMS 11.5.1 - 4.12	0.1392132685

Signed by: Saybolt representative

Name:

Rank: Saybolt Inspector

Date: 28 Oct 2020

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)

SAL4 COG V4.1.1.2 22/05/19

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**Product** AC 2500

Bill of Lading date: 28-Oct-2020

**Ullage Report Arrival**

Survey Date and Time 27 Oct 2020 13:20

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
1c	NIL	NIL		NIL			60.00	1.00000	
2c	NIL	NIL		NIL			60.00	1.00000	
3c	NIL	NIL		NIL			60.00	1.00000	

**Summary Totals**

On-board figures	Draft	Correction		
	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.

  
Date: 28 Oct 2020



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**Barge** CBC 67  
**Product** AC 2500

Bill of Lading date: 28-Oct-2020

**Ullage Report Departure**

Survey Date and Time 28 Oct 2020 15:00

API 60°F

27.20

Tank	Innage FT/IN	Innage corr FT/IN	TOV Barrels	Free water FT/IN	Free water Barrels	GOV Barrels	Temp °F	VCF table 60	GSV Barrels 60°F
1c	13-6-6		3,586.73	NIL		3,586.73	104.30	0.98256	3,524.18
2c	13-7-0		3,349.59	NIL		3,349.59	104.00	0.98268	3,291.58
3c	12-1-2		2,966.35	NIL		2,966.35	103.50	0.98288	2,915.57
Totals			9,902.67			9,902.67			9,731.33

**Summary Totals**

On-board figures	OBQ information	Draft	Correction
GSV Barrels 60°F	9,731.33	FORE FT/IN	9-0 TRIM FT/IN nil
TCV Barrels 60°F	9,731.33	AFT FT/IN	9-0 LIST °

On-board figures	Loaded figures	
GSV Liters 15°C	1,546,555	GSV Loaded Ltrs 15°C
GSV Cu m 15°C	1,546,555	Cu m 15°C Loaded
GSV Cu m 60°F	1,547,158	Cu m 60°F Loaded
GSV Barrels 60°F	9,731.33	GSV Loaded Bbls 60°F
GSV US gallons 60	408,715.86	GSV Loaded US Gals 60°F
MT vac	1,378.117	MT Vac Loaded
MT air	1,376.469	MT Air Loaded
LT	1,354.730	LT Loaded
ST	1,517.298	ST Loaded
Pounds	3,034,596	Pounds Loaded
		Average Product Temp °F 104.0

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

Saybolt representative  
  
Saybolt Inspector

Measurements in accordance with API standards.

Date: 28 Oct 2020

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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	16-10-2	16-10-2	16-10-2	Center
2c	16-9-2	16-9-2	16-9-2	Center
3c	16-9-6	16-9-6	16-9-6	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	2-0	FT/IN	9-0
AFT		FT/IN	2-0	FT/IN	9-0

**Measurement data Before Operations**

Survey Date and Time 27 Oct 2020 13:20

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 28 Oct 2020 15:00

Gauge equipment type	Saybolt equipment
Gauge equipment used	Manual tape
Temp equipment type	Saybolt equipment
Temp equipment used	Portable Electronic Thermometer

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

Saybolt representative

Saybolt Inspector

  
Date: 28 Oct 2020



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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:

Tanks API 60°F

Shore line API 60°F

Ships API 60°F

**Shore Line Displacement Comparison**

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

**Remarks:**

No LFV inspection was performed, due to the weather.

Signed by: Ship's representative  
Name:  
Rank:

Shore representative  
Loading Master

Saybolt representative  
Saybolt Inspector

Date: 28 Oct 2020

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**Sample Report**

Grade	Description	Sealed	Distribution	Amount	Volume
AC 2500	Shore tank 1260:Running from shore tank before loading	Open	Retain	1	1 quarts
AC 2500	Tb CBC 67:Running from barge tanks after loading	Open	Retain	3	1 quarts
Total Samples				4	

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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**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 line displacement was 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

Date: 28 Oct 2020

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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	Not Applicable
OBQ temperature was measured	API 17.1	Not Applicable
First foot samples were taken before loading commenced	API 17.1	Yes
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	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	No
Shore line fill verified after vessel loading	API 17.6	No
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	Yes
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	No
Vessel Experience Factor data obtained from vessel's records	API 17.1	Yes
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	Yes
Meters were proved before or after cargo transfer	API 17.1	Before

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