

Saybolt LP

Voyage Analysis Report (VAR)

Saybolt and walking street			Reference No.	Voyage/Trip No.	C/P Date (MM-DD-YY)	Page No.
DISCHARGE			5122010			
Vessel KIRBY 29:	108	-	Cargo Type of Voyage SIMF			LE
	Arrived (MM-DD-YY)	Sailed (MM-DD-YY)	Discharge Port/Termi	nal/Berth	Arrived (MM-DD-YY)	Sailed (MM-DD-YY)
Localing For Common Section			EXXONMOBIL	BAYTOWN	11/12/20	11/12/20
Quantity Unit	Supplier	Receiver		VCF TA	BLE USED	
Bbls Gals M3 LTRS			Shore Load	Shore Disc	Vessel Load	Vessel Disc
X				6B		6B Calculation
DESCRIPTION API/ Density	TCV	FW	GSV	S&W	NSV	Reference
I. Comparison of Shore Quantities in Custod	ly Transfer					
Bill of Lading 1.			0.00		0.00	(1)
Outturn 2. 33.0	24,746.24		24,746.24		24,746.24	(2)
Diff. 3.	24,746.24	0.00	24,746.24	0.00	24,746.24	(3)=[(2)-(1)
Diff. % 4.	#DIV/0!		#DIV/0!		#DIV/0!	(4)=(3)/(1) X 100
Recalculated B/L 5. 0.00 (A)	0.00	Recalculate	if B/L and O/T use o	lifferent tables	0.00	(5) (A) Vol. Diff.
II. Vessel/Shore Quantities at (1) Load P	ort(s)					1
Vessel Sailing A.	0.00	0.00	0.00	LIQUID	NON-LIQUID	(A)
OBQ (All) B.	0.00	0.00	0.00	0.00	0.00	(B)
Loaded C.	0.00	0.00	0.00			(C)=(A)-(B)
Difference D.	0.00	0.00	0.00			(D)=(C)-[(1)or(5)]
Difference % E.	0.000%		0.000%			(E)=(D)/[(1)or(5] x100
Load Vessel Ratio F.	#DIV/0!					(F)=(C)/[(1)or(5)]
Load VEF G.	1.00000					(G)
Theoretical Shore H.	0.00					(H)=(C)/(G)
Theoretical Difference I.	0.00					(I)=(H)-[(1)or(5)]
Theoretical Difference % J.	0.000%					(J)=(I)/[(1)or(5)] x100
III. Vessel/Shore Quantities at (2) Disch	arge Port(s)					_
Vessel Arrival K.	1	0.00	24,877.14	LIQUID	NON-LIQUID	(K)
ROB (All) L.	0.00	0.00	0.00	0.00	0.00	(L)
Discharged M.	24,877.14	0.00	24,877.14			(M)=(K)-(L)
Difference N.		0.00	130.90			(N)=(M)-(2)
Difference % O.			0.529%	N-M-		(O)=[(N)/(2)] x100
Discharge Vessel Ratio P.	·					(P)=(M)/(2)
Discharge VEF Q						(Q)
Theoretical Shore R						(R)=(M)/(Q)
Theoretical Difference S						(S)=(2)-(R)
Theoretical Difference %						(T)=[(S)/(2)] ×100
IV. Vessel's Comparison of Loading and Dis	(0.025.0)	TABLE MUST BE	CONSISTENT			
Transit Difference U		0.00	24,877.14			(U)=(K)-(A)
Difference % V			#DIV/0!	LIQUID	NON-LIQUID	(V)=[(U)/(A)] x100
OBQ/ROB Difference W		0.00	0.00	0.00	0.00	(W)=(B)-(L)
OBO/ROB BINCIPLE	TCV Difference (3) - 0		(S&W	(1)/GSV(1)) X 100	T (S8	W(2)/GSV(2)) X 100
			S&W % at Load Por		S&W % at Disc Port	0.000
Ajusted TCV Difference 24,746.24 (C	Quantity) /	#DIV/0!	JOONY 70 at LUAU PUI	#DIV/0:	Today Was Discitor	0.500
Comments:						
Dranged by	Title:		Company:		Date Complete (MM-	DD-YY):
Prepared by: Bradley Stephens	Account co	ordinator		olt LP		.6/20

EXXONMOBIL CHEMICAL CO 22777 Springwoods Village Parkway

77389 Spring **United States** Mr. W.W. Bamdt

5122010-20 / Trip # USEBARGARO-2010-078

Job No

13052/00002229.0000/01/1/20

Report date

16 Nov 2020

Installation

Houston, United States of America, ExxonMobil Baytown

Barge

Kirby 29108

Product

SCN

Time Log Outturn date: 12 Nov 2020

12 Nov 2020 (Thur	aday)
01:15	ST 349 gauged open
01:20	First Line Ashore
01:40	Moored Alongside Berth (All Fast)
02:05	Saybolt onboard before Operation
02:10	Commenced Initial Inspection
02:50	Completed Initial Inspection and Calculations, Tank(s) Measured and Sampled
04:45	Hose / Arm Connected
05:45	COMMENCED DISCHARGE
06:00	Suspended for LFV
08:55	Commenced LFV Inspection
09:05	Completed LFV Inspection
10:00	Resumed discharge
18:20	COMPLETED DISCHARGE
19:10	Saybolt onboard after Operation
19:15	Hose / Arm Disconnected
19:22	Commenced Final Inspection
19:45	Completed Final Inspection and Calculations, Tank(s) Inspected on Emptiness
20:00	Documents on Board
20:10	ST 349 gauged closed
22:00	Object Sailed / Departed

Mr. W.W. Barndt

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Product

SCN

Outturn date: 12 Nov 2020

Sample Report

	Description	Sealed	Distribution	Amount	Volume
Grade	OPEN AVG 1-3WINGS	Open	Retain	6	1 liters
SCN	ST349 OPEN TOP, UPPER, MIDDLE, LOWER, BOTTOM	Open	Retain	5	1 liters
SCN SCN	ST 349 CLOSE TOP, UPPER, MIDDLE, LOWER, BOTTOM	Open	Retain	5	1 liters
001		Total Sam	nles	16	

Vessel's samples were taken using vessel's closed sampling system.

Information

Samples drawn by

Shoretank sampling location

Type / condition of sampling containers

Loadport samples delivered by

received by

Saybolt Inspector

Top of tank

Clean glass bottles/tins

Saybolt Inspector

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.

United States Mr. W.W. Barndt

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Installation

Houston, United States of America, ExxonMobil Baytown

Barge

Kirby 29108

Product

SCN

Outturn date: 12 Nov 2020

Shore Tank Report Single

Shore tank 349

Silois taim s is		Open	Close
Shore tank measurement	The second second second second second	12 Nov 2020 01:15	12 Nov 2020 20:10
Date / Time of measurement	T AN	23-1-2	32-5-4
Average Innage	FT/IN	70.4	71.8
Average temp.	<u>°</u> F	61,724.88	86,638,42
T.O.V.	Barrels	TRACES	TRACES
Water	FT/IN	-5.29	-4.48
Floating roof	Barrels	69.00	73.00
Ambient temp.	*F	70.00	72.00
Tank shell temp.	ÆKÆ∯*F	1.00012	1.00015
CTsh		61.727.00	86,646.94
G.O.V.	Barrels	34.10	33.80
API 60°F	CD.	0.99522	0.99459
V.C.F.	6B barrels 60°F	61,431.94	86,178.18
G.S.V.		2,580,141.48	3,619,483.56
G.S.V.	US Gallons 60°F MPMS 11.5.1.4.4	7.114927771	7.127858692
Table 8	MPMS 11.5.1.4.4	18,357,520	25,799,167
Pounds			

				GSV	NSV
Totals	Barrels	24,913.54	Cu m 15°C	3,932.529	
T.O.V.	Barrels	24,919.94	Cu m 60°F	3,934.338	
G.O.V.	balleis	Daileis	Barrels 60°F	24,746.24	
D 11 1500	kall	0.85942	US Gallons 60°F	1,039,342.08	
Density 15°C	kg/l	0.85987	Metric Tons Vac	3,379.684	
RD 60/60°F		33.06	Metric Tons Air	3,375.474	
API 60°F		Sold Sold	Long Tons Air	3,322.164	
•	• • • H.E. S. 11	75.3		3,720.824	
Average Temp.		,	Pounds	7,441,647	

Tables used:

6B and W.C.F. MPMS 11.5.1.4.4.

EXXONMOBIL CHEMICAL CO 22777 Springwoods Village Parkway 77389 Spring United States Mr. W.W. Barndt 5122010-20 / Trip # USEBARGARO-2010-078

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Houston, United States of America, ExxonMobil Baytown

Barge

Kirby 29108

SCN Product

US gallons 60°F

Shore Tank Subtotals Outturn date: 12 Nov 2020 349 Totals Shore tank Subtotals **Gross Standard Volume** 3,932.529 3,932.529 Cu m 15°C 3,934.338 3,934.338 Cu m 60°F Barrels 60°F 24,746.24 24,746.24 1,039,342.08 US gallons 60°F 1,039,342.08 3,379.684 3,379.684 Metric Tons Vac 3,375,474 3,375.474 Metric Tons Air 3,322,164 3,322.164 Long Tons Air 3,720.824 Short Tons Air 3,720.824 7,441,647 7,441,647 Pounds Air 0.85942 Density 15°C 33.06 API 60°F 0.85987 RD 60/60° Net Standard Volume 3,932.529 Cu m 15°C Cu m 60°F 3,934.338 24,746.24 Barrels 60°F 1,039,342.08 US gallons 60°F Metric Tons Vac 3,379.684 3,375,474 Metric Tons Air Long Tons Air 3,322.164 3,720.824 Short Tons Air Pounds Air 7,441,647 **Total Calculated Volume** 24,746.24 Barrels 60°F 24,746.24

1,039,342.08

Mr. W.W. Barndt

5122010-20 / Trip # USEBARGARO-2010-078

13052/00002229.0000/01/1/20 Job No

16 Nov 2020 Report date

Installation Houston, United States of America, ExxonMobil Baytown

12 Nov 2020 02:50

Kirby 29108 Barge

4-11-4

Product SCN

Ullage Report Arrival Outturn date: 12 Nov 2020 API 60°F 33.00

Survey Date and Time VCF table 6B GSV GOV Temp TOV Free water ullage corr ullage Barrels 60°F Barreis FTAN Barreis FT/IN FTAN 0.99389 4,444.99 ND 4,472.32 73.40 4,472.32 1P 4-6-0 0.99389 4,454.79 4,482.18 ND 4,482.18 73.40 18 4-5-6 0.99394 4,105.49 4,130.52 ND 4,130.52 73.30 2P 5-0-0 0.99389 4,129.25 4,154.63 ND 4,154.63 73.40 28 5-0-4 0.99389 3,853.79 3,877.48 ND 3,877.48 73.40 4-11-6 3P 0.99389 3,888.83 73.40 3,912.74 ND 3,912.74

Summary Totals

35

Totals

On-board figures	ROB Information	Draft		Correction		ALS THE
GSV Barrels 60°F	24,877.14	FORE	FT/IN	10-0 TRIM	FT/IN	nil
TCV Barrels 60°F	24.877.14	AFT	FT/IN	10-0 LIST		

25,029.87

				inm/List correction applied.	110
On-board figures	Dischi	arged figures	A Company of the		
GSV Cu m 15°C	3,953.331 Cu m	15°C Disch.		Average Product Temp °F	73.4
GSV Cu m 60°F	3,955.149 Cu m I		3,955.149 24.877.14		

1,044,839.88 GSV Disch. US Glns 60°F 1,044,839.88 GSV US gallons 60 3,398.799 3.398.799 MT Vac Disch. MT vac 3,394.567 MT Air Disch. 3,394.567 MT air 3,340.956 3,340,956 LT Disch. LT 3,741.871 ST Disch. 3,741.871 ST 7,483,741 Pounds Disch. 7,483,741 Pounds

25,029.87

Signed by: Ship's representative

Name:

Rank: Barge Master

Saybolt representative

DB

Saybolt Inspector

Measurements in accordance with API standards.

Saybolt LP, 703 South FM 565 Rd, 77523 Baytown, United States Tel. FAX Website: E-mail:

All our activities are carried out under Sayboit's terms and conditions, available at www.coreiab.com/sayboit/farms-conditions SALAULL VA.1.18 SHIPP

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Saybolt

24,877.14

No

Mr. W.W. Barndt

Job No

5122010-20 / Trip # USEBARGARO-2010-078

16 Nov 2020 Report date

Houston, United States of America, ExxonMobil Baytown Installation

13052/00002229.0000/01/1/20

Kirby 29108 Barge

SCN **Product**

ROB Report Outturn date: 12 Nov 2020

Survey Date and Time 12 Nov 2020 19:45

2.		d Makama	Liqui	401	Non-L	lauld		Free	water
Tank	Total Observations	Volume Barrels	sounding FTAN	Volume Barreis	sounding FT/N	Volume Barrels		FT/IN	Volume Barreis
1P	NIL	Darrow	NIL NIL		NIL NIL			NIL NIL	
1S 2P	NIL NIL		NIL		NIL NIL			NIL NIL	
2S 3P	NIL NIL		NIL NIL		NIL			NIL NIL	
38	NIL		NIL		NIL			MIL	
Summary Totals				400			Correction		
On -board figures Total Observed Volume		Barrels Barrels		Draft Fore Aft	FT/IN	2.00 2.00	Trim List	FT/IN	nil
Free Water Gross Observed Volume Liquid Volume		Barrels Barrels			r temperature emperature				
Non-Liquid Volume		Barrels			correction applied?				Spattparlin 113

- 1. Above volumes presumed to be at standard temperature unless otherwise noted.
 2. Above volumes exclude any clingage.
 3. Measurements are taken at one point only unless otherwise stated.

Signed by: Ship's representative

Name:

Rank: Barge Master

Saybolt representative Saybolt Inspector

Date: 16 Nov 2020 13:25 Page 6 of 10

Saybolt

EXXONMOBIL CHEMICAL CO 22777 Springwoods Village Parkway 77389 Spring **United States** Mr. W.W. Barndt 5122010-20 / Trip # USEBARGARO-2010-078



Gauging Location

Job No

13052/00002229.0000/01/I/20

Report date

16 Nov 2020

Installation

Houston, United States of America, ExxonMobil Baytown

Barge

Kirby 29108

Product SCN

Outturn date: 12 Nov 2020

Reference Height and Measurement data report

Tank	Calibrated Reference	Found Reference	e Height in FT/IN	
	Height in FT/IN	Before	After	
1P	16-8-0	16-8-0	16-8-0	
1S	16-8-0	16-8-0	16-8-0	

Center Center 16-7-6 Center 16-7-6 2P 16-7-6 16-8-2 16-8-2 16-8-2 Center 25 16-5-4 Center 16-5-4 16-5-4 3P Center 16-5-6 16-5-6 38 16-5-6

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

Draft	Bef	ore	Aft	ter and the same of the same o
	FT/IN	10-0	FT/IN	2-0
FWD AFT	FT/IN	10-0	FT/IN	2-0

Measurement data Before Operations

Survey Date and Time

12 Nov 2020 02:50

Gauge equipment type Gauge equipment used Gauge equipment number Temp equipment type Temp equipment used

Saybolt equipment G23961 Saybolt equipment

UTI G23961

Measurement data After Operations

Survey Date and Time

12 Nov 2020 19:45

Gauge equipment type Gauge equipment used Gauge equipment number

Temp equipment number

Saybolt equipment

UTI G23959

Signed by: Ship's representative

Name:

Rank: Barge Master

Saybolt LP, 703 South FM 565 Rd, 77523 Baytown, United States
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

Saybolt representative GM

Saybolt Inspector

Date: 16 Nov 2020 13:25 Page 7 of 10

EXXONMOBIL CHEMICAL CO 22777 Springwoods Village Parkway 77389 Spring United States Mr. W.W. Barndt 5122010-20 / Trip # USEBARGARO-2010-078



13052/00002229.0000/01/1/20 Job No

16 Nov 2020 Report date

Houston, United States of America, ExxonMobil Baytown Installation

Kirby 29108 Barge

SCN **Product**

Letter of Protest Outturn date: 12 Nov 2020

Dear Sirs,

This is to advise that we, Saybolt, as Independent Surveyors on behalf of our clients do hereby lodge protest in respect of:

The difference between the shore and barge is greater than 0.25%.

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.

Saybolt representative Shore representative Signed by: Ship's representative

Name:

Saybolt Inspector Loading Master Rank:

EXXONMOBIL CHEMICAL CO 22777 Springwoods Village Parkway 77389 Spring United States Mr. W.W. Bamdt 5122010-20 / Trip # USEBARGARO-2010-078



13052/00002229.0000/01/1/20

16 Nov 2020 Report date

Installation Houston, United States of America, ExxonMobil Baytown

Kirby 29108 Barge

SCN **Product**

Outturn date: 12 Nov 2020

API Checklist Discharge

Before Discharge	Standards Re	
Participated in the key meeting	API 17.1	Yes
Closed / restricted measurement and sampling equipment used onboard	API 17.2	Not Applicable
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
Recorded shore automatic gauges and temperatures	API 17.1	Not Applicable
Personally measured shore product, free water & temperature	API 3.1a	Yes
Verified shore line fill and capacity	API 17.1	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 discharge	API 17.1	No
Recorded vessel's draft readings before discharge	API 17.1	Yes
Check sea valve security and recorded seal numbers before discharge	API 17.1	Not Applicable
All deck lines drained into the vessel's cargo tanks before gauging	API 17.1	Yes
Measured vessel's cargo, slops, free water, non-cargo areas & temperatures	API 17.2	Yes
Manual gauging not permitted / possible; vessel's automatic gauges used	API 17.2	Not Applicable
Inspected ballast tanks for presence of cargo	API 17.1	Not Applicable
Sampled each cargo tank and slop tank individually; samples labeled	API 17.1	No
Collected load port samples from the vessel; signed receipt for vessel representative.	API 17.1	Yes
Bunker quantities were recorded	API 17.1	Not Applicable
Volume calculated independently before discharging began	API 17.1	No
Transit differences protested, if found	API 17.1	Not Applicable
After Discharge	Standards Re	
Tanks COW'd during discharge	API 17.1	Not Applicable
Line sample taken during discharge	API 17.1	Not Applicable
Time Log Prepared	API 17.1	Yes
Recorded vessel's draft readings after discharge	API 17.1	Yes
All deck lines drained into the vessel's cargo tanks before gauging	API 17.1	Not Applicable
	API 17.1	Not Applicable
Check sea valve security and recorded seal numbers after discharge	API 17.1	Not Applicable
Bunker quantities were recorded after discharge	API 17.6	Not Applicable
Shore and vessel line fill verified after vessel discharge	API 17.4	Yes
Every cargo tank gauged or visually verified for ROB	API 17.4	Not Applicable
Measured ROB using Saybolt equipment at low end of tank	API 17.4	Not Applicable
ROB measured at points other than the reference gauge point	API 17.4	Not Applicable
ROB sampled / temperatured if necessary; samples labeled	API 17.4	
Calculations (or tables) for trim and wedge were used as applicable		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
Shore tank samples taken after discharge	API 17.1	Yes
Automatic sampler inspected and appeared to be functioning properly	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

Mr. W.W. Barndt

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13052/00002229.0000/01/1/20

16 Nov 2020 Report date

Installation Houston, United States of America, ExxonMobil Baytown

Kirby 29108 Barge

Product SCN

Line Displacement Report Outturn date: 12 Nov 2020

34.10

Mineral

On your request a line displacement was carried out before discharge 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 1,300 manifold Shore tank(s) used 349 Tanks API 60°F 34.10 Shore line(s) used 116 Shore line API 60°F 34.10 Ship tank(s) used 3W's Ships API 60°F 33.00

Shore Line Displacement Comparison

149			Observed Volume Barrels	Temperature °F	Standard Volume Barrels
Sho	re				
Α	Shore tank 349 quantity before		61,724.88		
В	Shore tank 349 quantity after		63,028.77		
C	Shore tank difference	(B-A)	1,303.89		
D	Shore tank quantity before		0		
E	Shore tank quantity after				
F	Shore tank difference	(E-D)	0		
G	Total shore difference	(C+F)	1,303.89		
Vess	sel	200			
K	Ship tanks quantity before		7,791.22		
L	Ship tanks quantity after		6,582.25		
M	Ships difference	(K-L)	1,208.97		
N	Ship line quantity				
0	Difference including Ship line	(M-N)	1,208.97		
Tota	ls				
Diffe	rence Ship vs Shore	(O-G)	Δ Quantity	Δ%	
Obse	erved Volume	Barrels	94.92	7.28	
Stan	dard Volume	Barrels			

Signed by: Ship's representative

Shore representative

Saybolt representative

Name:

Rank: Loading Master Saybolt Inspector

Saybolt LP, 703 South FM 565 Rd, 77523 Baytown, United States
Tel. FAX
Website: E-mail:
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