

EXXONMOBIL CHEMICAL CO  
22777 Springwoods Village Parkway  
77389 Spring  
United States  
Mr. D.N. Nakata  
USEBARGCHE-2102-006 / 5132330



Job No 13074/00001759.0000/01/I/20  
Report date 19 Jan 2021  
Installation Houston, United States of America, Vopak Terminal Deer Park

**Barge FMT 1068**  
**Product Exxsol D 80**

Outturn date: 17 Jan 2021

**Contents page**

Saybolt LP has performed a survey of the above mentioned object, the findings of the survey are reflected in the following reports:

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This report consists of 11 pages.

A copy of this report and all field documents and related correspondence will be retained for a period of 10 years, unless local law requires otherwise

Handled by: Timothy Wedman

*This report reflects only the findings at the time and place of the inspection and testing. This report is not a guarantee or policy of insurance with respect to the goods or the contractual performance of any party. Any person relying upon this report should be aware that issuer's activities are carried out under their general terms and conditions.*

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**Barge** FMT 1068  
**Product** Exxsol D 80

## Cover Page Discharge

### Discharge data

Quantity data			
Outturn date		17 Jan 2021	
Loadport			
Average product temperature onboard	°F	51.7	
Calculation data			
Shore tank Volume conversion table used		6B	
Vessel Volume conversion table used		6B	
Shore data			
Discharge Installation		Vopak Terminal Deer Park	
Shore tank number(s)		592	
Vessel data			
Cargo stowed in cargo tanks		1C, 2C, 3C	
Type of standpipes of vessel tanks		None	
Vessel tank measurement were carried out with		Saybolt equipment	by UTI
Vessel tank measurement equipment number		G24225	
Vessel tank temperatures were carried out with		Saybolt equipment	by UTI
Sea Condition		Calm (rippled) - 0 to 0.1 m (0.00 to 0.33 ft)	
Weather condition		Clear Sky	
Operational data			
Ambient outside temperature at discharge	°F	61.00	

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## Time Log

14 Jan 2021 (Thursday)	
18:40	Inspector arrived at K-Solv for barge pre sampling
21:05	Commenced barge inspection / sampling at K-Solv
21:30	Complete barge inspection / sampling at K-Solv
22:10	Commenced flush 1 tote at port manifold
22:15	Complete flush 1 tote at port manifold / Port manifold sampled and rejected on appearance
22:20	Commence flushing second tote at port manifold
22:25	Complete flushing second tote at port manifold
22:50	Commence flushing 1 tote at STBD manifold
23:05	Complete flushing 1 tote at STBD manifold / STD manifold sample drawn
23:15	Inspector departed K-Solv
17 Jan 2021 (Sunday)	
08:45	Object arrived at Installation
09:00	Moored Alongside Berth (All Fast)
09:00	Saybolt notified by Installation
09:00	Gangway in Place (FIXED)
09:10	Inspector arrived at Installation
09:15	Commenced Initial Inspection
09:15	Saybolt onboard before Operation
09:30	Completed Initial Inspection and Calculations, Tank(s) Measured and Sampled
10:05	Cargo hose connected
11:10	COMMENCED DISCHARGE
11:30	Suspended discharging due to leak at connection
11:55	Resume discharge / Leak resolved
18:10	COMPLETED DISCHARGE
18:20	Saybolt onboard after Operation
18:25	Commenced Final Inspection
18:30	Completed Final Inspection and Calculations, Tank(s) Inspected on Emptiness
18:30	Cargo hose disconnected
19:00	Object Sailed / Departed

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## Sample Report

Grade	Description	Sealed	Distribution	Amount	Volume
Exxsol D 80	1C, 2C, 3C running before discharge	Open	Lab	9	1 Quarts
Exxsol D 80	Port manifold flush before discharge	Open	Lab	4	1 Quarts
Exxsol D 80	STBD manifold flush before discharge	Open	Retain	2	1 Quarts
Exxsol D 80	1C, 2C, 3C multi tank composite	Open	Retain	1	1 Quarts
Exxsol D 80	End of shore line before discharging	Open	Saybolt	1	1 Quarts
Exxsol D 80	Shore tank 592 Running before discharging	Open	Saybolt	2	1 Quarts
Exxsol D 80	Shoret tank 592 Running after discharging	Open	Saybolt	2	1 Quarts
Total Samples				21	

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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## Certificate of Quantity

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

	Gross
Liters 15°C	1,617,902
Cubic meters 15°C	1,617.902
Cubic meters 60°F	1,618.728
Barrels 60°F	10,181.49
US Gallons 60°F	427,622.58
Metric Tons vac	1,306.075
Metric Tons air	1,304.330
Long Tons	1,283.730
Short Tons	1,437.778
Pounds	2,875,556.00

These quantities have been determined by measurement of shore tanks.

Outturn API 60°F	43.69
Outturn Density 15°C	0.80731
Outturn RD 60/60°F	0.80769

Criteria used		
US Barrels 60°F to Liters 15°C	MPMS 11.5.1 - 4.20	158.906253
Liters 15°C to Cu m 15°C	MPMS 11.5.3 - Annex A	0.001
US Barrels 60°F to Cu m 60°F	MPMS 11.5 - Annex D	0.158987304
US Barrels 60°F to US Gallons 60°F	MPMS 11.5 - Annex D	42
Metric Tons Air to Metric Tons Vac	MPMS 11.5.3 - 4.5	1.001337563
Long Tons to Metric Tons Air	MPMS 11.5 - Annex D	1.0160469088
Long Tons to Short Tons	MPMS 11.5 - Annex D	1.12

Signed by: Saybolt representative

Name:

Rank: Saybolt Inspector

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## Shore Tank Report Single

### Shore tank 592 at Vopak Terminal Deer Park

Shore tank measurement		Open	Close
Date / Time of measurement		17 Jan 2021 10:45	17 Jan 2021 22:10
Average Ullage	FT/IN	30-1-1/8	18'-2"
Average temp.	°F	50.8	51.6
T.O.V.	Barrels	17,963.33	28,108.79
Water	FT/IN	0-0-0	ND
Ambient temp.	°F	63.00	55.00
G.O.V.	Barrels	17,963.33	28,108.79
API 60°F		43.70	43.70
V.C.F.	6B	1.00466	1.00426
G.S.V.	barrels 60°F	18,047.04	28,228.53
Table 11	MPMS 11.5.1.4.12	0.126084755	0.126084755
Long Tons		2,275.460	3,559.190

Totals			GSV	NSV
T.O.V.	Barrels	10,145.46	Liters 15°C	1,617,902
G.O.V.	Barrels	10,145.46	Cu m 15°C	1,617.902
			Cu m 60°F	1,618.728
Density 15°C	kg/l	0.80731	Barrels 60°F	10,181.49
RD 60/60°F		0.80769	US Gallons 60°F	427,622.58
API 60°F		43.69	Metric Tons Vac	1,306.075
			Metric Tons Air	1,304.330
Average Temp.	°F	53.0	Long Tons Air	1,283.730
			Short Tons Air	1,437.778
Tables used:	6B and W.C.F. MPMS 11.5.1.4.12.		Pounds	2,875,556.00

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## Shore Tank Measurement Details

### Shore tank 592

Measurement data (Ullage)		Open	Close
Average	FT/IN	30'-1-1/8	18'-2"
Measurement Equipment Data		Open	Close
Gauging equipment type		Shore equipment/ATG	Shore equipment/ATG
Gauging Equipment used		Automatic Tank Gauge	Automatic Tank Gauge
Gauging equipment number		SAAB	saab
Temperature equipment type		Shore equipment/ATG	Shore equipment/ATG
Temperature Equipment used		Automatic Tank Temperature	Automatic Tank Temperature
Temperature equipment number		SAAB	saab
Inspector name		JO CAMPBELL	HENRY MARTINEZ

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**Ullage Report Arrival**

Survey Date and Time 17 Jan 2021 10:00

API 60°F

43.70

Tank	Innage FT/IN	Innage corr FT/IN	TOV Barrels	Free water FT/IN	Barrels	GOV Barrels	Temp °F	VCF table 6B	GSV Barrels 60°F
1C	13-4-0		3,567.42	ND		3,567.42	51.60	1.00426	3,582.62
2C	13-4-1/4		3,310.75	ND		3,310.75	51.80	1.00416	3,324.52
3C	13-4-0		3,282.65	ND		3,282.65	51.80	1.00416	3,296.31
Totals			10,160.82			10,160.82			10,203.45

**Summary Totals**

On-board figures	ROB Information	Draft	Correction
GSV Barrels 60°F	10,203.45 ROB LIQUID OIL	6.33 FORE FT/IN	8-6 TRIM FT/IN
TCV Barrels 60°F	10,203.45 ROB TOTAL VOLUME	6.33 AFT FT/IN	9-0 LIST °

On-board figures	Discharged figures
GSV Liters 15°C	1,621,392 GSV Disch. Ltrs 15°C
GSV Cu m 15°C	1,621.392 Cu m 15°C Disch.
GSV Cu m 60°F	1,622.219 Cu m 60°F Disch.
GSV Barrels 60°F	10,203.45 GSV Disch. Bbls 60°F
GSV US gallons 60	428,545.00 GSV Disch. US Glns 60°F
MT vac	1,308.892 MT Vac Disch.
MT air	1,307.144 MT Air Disch.
LT	1,286.500 LT Disch.
ST	1,440.880 ST Disch.
Pounds	2,881,760.00 Pounds Disch.

Signed by: Ship's representative

Name:

Rank: *Barge Master*

Saybolt representative

JO CAMPBELL

Saybolt Inspector

Measurements in accordance with API standards.



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## Ullage Report Departure

Survey Date and Time 17 Jan 2021 18:30

API 60°F

43.70

Tank	Innage FT/IN	Innage corr FT/IN	TOV Barrels	Free water FT/IN	Barrels	GOV Barrels	Temp °F	VCF table 6B	GSV Barrels 60°F
1C	17' -7"		6.33	ND		6.33	60.00	1.00000	6.33
2C	17'-7 5/8"			ND			60.00	1.00000	
3C	17'-7 3/8"			ND			60.00	1.00000	
Totals			6.33			6.33			6.33

### Summary Totals

On-board figures			Draft		Correction		
GSV Barrels 60°F	6.33		FORE	FT/IN	02' 06" TRIM	FT/IN	-0.9
TCV Barrels 60°F	6.33		AFT	FT/IN	01' 09" LIST	°	

On-board figures				
GSV Liters 15°C	1,006		Average Product Temp °F	60.0
GSV Cu m 15°C	1.006		Ambient temp	56
GSV Cu m 60°F	1.006			
GSV Barrels 60°F	6.33			
GSV US gallons 60	266.00			
MT vac	0.814			
MT air	0.813			
LT	0.800			
ST	0.896			
Pounds	1,792.00			

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

Saybolt representative  
Steven henson  
*Saybolt Inspector*

Measurements in accordance with API standards.

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## Notice of Apparent Discrepancy

TO: THE REPRESENTATIVE OF THE TERMINAL INDICATED ABOVE:

1. The designated shore tanks were gauged, sampled (if applicable) and temperatured (if applicable) before and after cargo transfer and found to have received 10,181.49 Bbl GSV at 60°F.
2. The designated vessel tanks were gauged, sampled (if applicable) and temperatured (if applicable) before and after cargo transfer and found to have delivered 10,197.12 Bbl GSV at 60°F, after applying the vessel's experience factor (VEF).
3. Please investigate the discrepancy between the volumes shown above in items 1 and 2 which appears to be 15.63 Bbl and report your findings promptly.
4. The terminal representative designated shore tank(s) number(s) 592 to receive the above cargo.  
The terminal representative informed us that the shore lines used to transfer the cargo were full before and full after transfer of the cargo.
5. Line fill was verified by the terminal using the following line fill verification procedure: Line displacement
6. There was no evidence of spillage at the terminal or the vessel.

**Furthermore, on behalf of our client, we reserve the right to revert to this matter at a later date.**

Signed by: Shore representative  
Name:  
Rank: *Loading Master*

Saybolt representative  
Steven henson  
*Saybolt Inspector*

**Note:** If the word "Refused" appears above under "Shore representative", it indicates that a copy of this document was left with the terminal on the date shown at the top, however, the terminal representative refused to acknowledge receipt of the document.

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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	16-2-0	17-7-3/4	17'-7 3/4"	Center
2C	16-2-0	17-7-3/4	17'-7 5/8"	Center
3C	16-1-3/4	17-7-1/2	17'-7 3/8"	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	8-6	FT/IN	02' 06"
AFT	FT/IN	9-0	FT/IN	01' 09"

### Measurement data Before Operations

Survey Date and Time	17 Jan 2021 10:00	Gauge equipment type	Saybolt equipment
Water Measurement Method	UTI	Gauge equipment used	UTI
Connector Type	MMC	Gauge equipment number	G24225
Weather Condition	Clear Sky	Temp equipment type	Saybolt equipment
Sea Condition	Calm (rippled) - 0 to 0.1 m (0.00 to 0.33 ft)	Temp equipment used	UTI

### Measurement data After Operations

Survey Date and Time	17 Jan 2021 18:30	Gauge equipment type	Saybolt equipment
Water Measurement Method	UTI	Gauge equipment used	Manual tape
Connector Type	Quick	Temp equipment type	Saybolt equipment
Weather Condition	Cloudy	Temp equipment used	Portable Electronic Thermometer
Sea Condition	Smooth (wavelets) - 0.1 to 0.5 m (3.9 in to 1 ft 7.7 in)		

Signed by: Ship's representative

Name:

Rank: *Barge Master*

Saybolt representative

Steven henson

*Saybolt Inspector*

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