

EXXONMOBIL OIL CORPORATION  
22777 SPRINGWOODS VILLAGE PARKWAY  
77389-1425 Spring  
United States  
Mr. K.C. Mcilroy  
Trip: 2020-BT-VP-EHC120-11



Job No 13074/00001689.0000/01/I/20  
Report date 13 Dec 2020  
Installation Houston, United States of America, Vopak Terminal Deer Park

**Barge CBC 317**  
**Product EHC 120**

Outturn date: 12 Dec 2020

**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 15 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: Larry Hodson

*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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Handled by: Larry Hodson

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Job No 13074/00001689.0000/01/I/20  
 Report date 13 Dec 2020  
 Installation Houston, United States of America, Vopak Terminal Deer Park

**Barge** **CBC 317**  
**Product** **EHC 120**

## Cover Page Discharge

### Discharge data

Quantity data			
Outturn date		12 Dec 2020	
Loadport			
Average product temperature onboard	°F	70.4	
Calculation data			
Shore tank Volume conversion table used		6D	
Vessel Volume conversion table used		6D	
Shore data			
Discharge Installation		Vopak Terminal Deer Park	
Shore tank number(s)		736	
Shore tank measurements were carried out with		Shore equipment/ATG	by See Shore tank details report for data
Shore tank measurement equipment number		See Shore tank details report for data	
Shore tank temperatures were carried out with		Shore equipment/ATG	by See Shore tank details report for data
Shore tank temperature equipment number		See Shore tank details report for data	
Vessel data			
Cargo stowed in cargo tanks		1P, 1S, 2P, 2S, 3P, 3S	
Type of standpipes of vessel tanks		Slotted	
Vessel tank measurement were carried out with		Saybolt equipment	by Manual tape
Vessel tank measurement equipment number		5518	
Vessel tank temperatures were carried out with		Saybolt equipment	by Portable Electronic Thermometer
Vessel tank temperature equipment number		1C041391	
Sea Condition		Calm (glassy) - 0 m (0 ft)	
Weather condition		Clear Sky	

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**Barge CBC 317**  
**Product EHC 120**

Outturn date: 12 Dec 2020

## Time Log

07 Dec 2020 (Monday)	
01:20	Notice of Readiness Tendered
11 Dec 2020 (Friday)	
03:30	First Line Ashore
04:00	Moored Alongside Berth (All Fast)
04:10	Saybolt onboard before Operation
04:11	Commenced Initial Inspection
04:55	Completed Initial Inspection and Calculations, Tank(s) Measured and Sampled
05:15	Hose Connected
06:10	COMMENCED DISCHARGE
08:00	Suspended Discharge
08:35	Rusumed discharging
12 Dec 2020 (Saturday)	
09:05	COMPLETED DISCHARGE
09:15	Saybolt onboard after Operation
09:20	Commenced Final Inspection
09:25	Completed Final Inspection and Calculations, Tank(s) Inspected on Emptiness
09:45	Hose / Arm Disconnected
10:30	Object Sailed / Departed

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Installation Houston, United States of America, Vopak Terminal Deer Park

**Barge CBC 317**  
**Product EHC 120**

Outturn date: 12 Dec 2020

## Certificate of Quantity

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

	Gross	Net
Liters 15°C	2,598,058	2,598,058
Cubic meters 15°C	2,598.058	2,598.058
Cubic meters 60°F	2,599.153	2,599.153
Barrels 60°F	16,348.21	16,348.21
US Gallons 60°F	686,624.70	686,624.70
Metric Tons vac	2,247.100	2,247.100
Metric Tons air	2,244.295	2,244.295
Long Tons	2,208.847	2,208.847
Short Tons	2,473.909	2,473.909
Pounds	4,947,818	4,947,818

These quantities have been determined by measurement of shore tanks.

Outturn API 60°F	32.01
Outturn Density 15°C	0.8650
Outturn RD 60/60°F	0.8654

### Criteria used

US Gallons 60°F to Liters 15°C	ASTM Table 22	3.7837
Liters 15°C to Cu m 15°C	ASTM Table 1	0.001
US Barrels 60°F to Cu m 60°F	ASTM Table 1	0.158987
US Barrels 60°F to US Gallons 60°F	ASTM Table 1	42
Metric Tons Air to Metric Tons Vac	ASTM Table 56	1.00125
Pounds to Metric Tons Air	ASTM Table 1	453.592
Pounds to Long Tons	ASTM Table 1	2,240

Signed by: Saybolt representative

Name:

Rank: Saybolt Inspector

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## Shore Tank Measurement Details

### Shore tank 736

Measurement data (Innage)		Open	Close
Average	FT/IN	43-1-7/16	16-10-1/16
Measurement Equipment Data		Open	Close
Water measurement used		Paste	
Water paste used		KK	
Gauging equipment type		Shore equipment/ATG	Shore equipment/ATG
Gauging Equipment used		Automatic Tank Gauge	
Gauging equipment number			SAAB
Temperature equipment type		Shore equipment/ATG	Shore equipment/ATG
Temperature Equipment used		Automatic Tank Temperature	
Temperature equipment number			SAAB
Inspector Equipment used for verification?		Yes	No
Inspector name		GGalloway	JOHN HARRIS

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## Shore Tank Report Single

### Shore tank 736 at Vopak Terminal Deer Park

Shore tank measurement		Open	Close
Date / Time of measurement		11 Dec 2020 01:55	12 Dec 2020 13:55
Average Innage	FT/IN	43-1-7/16	16-10-1/16
Average temp.	°F	59.6	69.1
T.O.V.	us gallons	138,809.00	828,816.00
Water	FT/IN	Nil	Nil
Line content	us gallons	310.00	
G.O.V.	us gallons	139,119.00	828,816.00
API 60°F		32.00	32.00
V.C.F.	6D	1.00016	0.99632
G.S.V.	us gallons 60°F	139,141.26	825,765.96
Table 8	Table 8	7.206	7.206
Pounds		1,002,652	5,950,470

Totals			GSV	NSV
T.O.V.	us gallons	690,007.00	Liters 15°C	2,598,058
Line content	us gallons	-310.00	Cu m 15°C	2,598.058
G.O.V.	us gallons	689,697.00	Cu m 60°F	2,599.153
			Barrels 60°F	16,348.21
Density 20°C	kg/l	0.8650	US Gallons 60°F	686,624.70
RD 60/60°F		0.8654	Metric Tons Vac	2,247.100
API 60°F		32.01	Metric Tons Air	2,244.295
			Long Tons Air	2,208.847
Average Temp.	°F	71.0	Short Tons Air	2,473.909
			Pounds	4,947,818

Tables used: 6D and W.C.F. Table 8.

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**Barge CBC 317**  
**Product EHC 120**

Outturn date: 12 Dec 2020

## Ullage Report Arrival

Survey Date and Time 11 Dec 2020 04:55

API 60°F

32.00

Tank	ullage FT/IN	ullage corr FT/IN	TOV us gallons	Free water FT/IN	Free water us gallons	GOV us gallons	Temp °F	VCF table 6D	GSV US Gallons 60°F
1P	07 06-3/8		118,424.00	0-0-0		118,424.00	70.60	0.99521	117,857.00
1S	07 04-7/8		116,516.00	0-0-0		116,516.00	70.60	0.99521	115,958.00
2P	07 07-5/8		117,085.00	0-0-0		117,085.00	70.40	0.99530	116,535.00
2S	07 07-1/2		116,846.00	0-0-0		116,846.00	70.30	0.99534	116,301.00
3P	07 04-1/4		114,110.00	0-0-0		114,110.00	70.10	0.99543	113,589.00
3S	07 02-1/2		111,513.00	0-0-0		111,513.00	70.30	0.99534	110,993.00
Totals			694,494.00			694,494.00			691,233.00

### Summary Totals

On-board figures	ROB Information	Draft	Correction
GSV US Gallons 60°F	691,233.00	ROB LIQUID OIL	1,384.00
TCV US Gallons 60°F	691,233.00	ROB TOTAL VOLUME	1,384.00
		FORE FT/IN	7-0 TRIM FT/IN
		AFT FT/IN	7-0 LIST °
			nil
			0-0

On-board figures	Discharged figures
GSV Liters 15°C	2,615,494
GSV Cu m 15°C	2,615.494
GSV Cu m 60°F	2,616.597
GSV Barrels 60°F	16,457.93
GSV US gallons 60	691,233.00
MT vac	2,262.182
MT air	2,259.358
LT	2,223.670
ST	2,490.513
Pounds	4,981,025
GSV Disch. Ltrs 15°C	2,610,258
Cu m 15°C Disch.	2,610.258
Cu m 60°F Disch.	2,611.358
GSV Disch. Bbls 60°F	16,424.98
GSV Disch. US Glns 60°F	689,849.00
MT Vac Disch.	2,257.653
MT Air Disch.	2,254.834
LT Disch.	2,219.220
ST Disch.	2,485.526
Pounds Disch.	4,971,052
Average Product Temp °F	70.4
Sea Water temp	61

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

Saybolt representative  
Greg Gallaway  
*Saybolt Inspector*

Measurements in accordance with API standards.

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**Barge** CBC 317  
**Product** EHC 120

Outturn date: 12 Dec 2020

**ROB Report**

Survey Date and Time 12 Dec 2020 09:25

Tank	Total Observed Volume sounding FT/IN	Volume us gallons	Liquid Oil sounding FT/IN	Volume us gallons	Non-Liquid sounding FT/IN	Volume us gallons	Free water sounding FT/IN	Volume us gallons
1P	NIL		NIL		NIL		NIL	
1S	NIL		NIL		NIL		NIL	
2P	NIL		NIL		NIL		NIL	
2S	NIL		NIL		NIL		NIL	
3P	NIL	1,384.00	0-1-0	1,384.00	NIL		NIL	
3S	NIL		NIL		NIL		NIL	

**Summary Totals**

On-board figures			Draft		Corrections			
Total Observed Volume	us gallons	1,384.00	Fore	FT/IN	2.00	Trim	FT/IN	nil
Free Water	us gallons		Aft	FT/IN	2.00	List	°	
Gross Observed Volume	us gallons	1,384.00	Sea water temperature					
Liquid Volume	us gallons	1,384.00	Ambient temperature					65
Non-Liquid Volume	us gallons		Trim/List correction applied?					
			Wedge formula applied?					

**Remarks**

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  
 john harris  
*Saybolt Inspector*

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## Line Displacement Report

### 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:

Tanks API 60°F  
Shore line API 60°F  
Ships API 60°F

### Shore Line Displacement Comparison

		Observed Volume Gallons	Temperature °F	Standard Volume Gallons
<b>Shore</b>				
A	Shore tank quantity before	138,809		
B	Shore tank quantity after	206,930		
C	Shore tank difference (B-A)	68,121.00		
D	Shore tank quantity before	0		
E	Shore tank quantity after			
F	Shore tank difference (E-D)	0		
G	Total shore difference (C+F)	68,121.00		
<b>Vessel</b>				
K	Ship tanks quantity before	234,940		
L	Ship tanks quantity after	157,787		
M	Ships difference (K-L)	77,153.00		
N	Ship line quantity			
O	Difference including Ship line (M-N)	77,153.00		
<b>Totals</b>				
	Difference Ship vs Shore (O-G)	Δ Quantity	Δ %	
	Observed Volume Gallons	-9,032.00	-13.26	
	Standard Volume Gallons			

### Remarks:

lines were empty

Signed by: Ship's representative  
Name:  
Rank:

Shore representative  
  
Loading Master

Saybolt representative  
john harris  
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:

- 1. Shore to Vessel Difference After Line displacement of 9032.00 Gallons**
- 2. Shore to Vessel Difference 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.

Signed by: Ship's representative  
Name:  
Rank:

Shore representative  
  
*Loading Master*

Saybolt representative  
John Harris  
*Saybolt Inspector*

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## Sample Report

Grade	Description	Sealed	Distribution	Amount	Volume
EHC 120	Shore Tank 736 Running Average Before Discharge	Open	Retain	2	1 Quarts
EHC 120	Shore Tank 736 Running Average After Discharge	Open	Exxonmobil	4	1 Quarts
EHC 120	CBC 317 RUNNING BEFORE	Open	Retain	6	1 quarts
EHC 120	Shore Tank 736 Running Average After Discharge	Open	Retain	4	1 Quarts
EHC 120	Shore Tank 736 Running Average After Discharge	Open	Exxonmobil	1	1 Gallon
EHC 120	Shore Tank 736 Running Average After Discharge	Open	Retain	1	1 Gallon
Total Samples				18	

### 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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Handled by: Larry Hodson

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Date: 14 Dec 2020 03:51

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EXXONMOBIL OIL CORPORATION  
22777 SPRINGWOODS VILLAGE PARKWAY  
77389-1425 Spring  
United States  
Mr. K.C. Mcilroy  
Trip: 2020-BT-VP-EHC120-11



Job No 13074/00001689.0000/01/I/20  
Report date 13 Dec 2020  
Installation Houston, United States of America, Vopak Terminal Deer Park

**Barge** CBC 317  
**Product** EHC 120

Outturn date: 12 Dec 2020

## 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	16-4-3/4	16 04-3/4	16-4-3/4	Center
1S	16-4-1/4	16 04-1/4	16-4-1/4	Center
2P	16-3-3/4	16 03-7/8	16-3-3/4	Center
2S	16-3-3/4	16 03-3/4	16-3-3/4	Center
3P	16-3-3/4	16 03-3/4	16-3-3/4	Center
3S	16-4-1/4	16 04-0/8	16-4-1/4	Center

\* Tanks where full sounding depth could not be reached due to obstructions or tank contours.

Draft	Before		After	
FWD	FT/IN	7-0	FT/IN	2-0
AFT	FT/IN	7-0	FT/IN	2-0

### Measurement data Before Operations

Survey Date and Time	11 Dec 2020 04:55	Gauge equipment type	Saybolt equipment
Water Measurement Method	Paste - KK	Gauge equipment used	Manual tape
Connector Type	MMC	Gauge equipment number	5518
Weather Condition	Clear Sky	Temp equipment type	Saybolt equipment
Sea Condition	Calm (glassy) - 0 m (0 ft)	Temp equipment used	Portable Electronic Thermometer
		Temp equipment number	1C041391

### Measurement data After Operations

Survey Date and Time	12 Dec 2020 09:25	Gauge equipment type	Saybolt equipment
Inspector Equipment used for verification?	No	Gauge equipment used	Manual tape
		Gauge equipment number	3871
Water Measurement Method	Paste - kk masters		
Weather Condition	Cloudy		
Sea Condition	Calm (rippled) - 0 to 0.1 m (0.00 to 0.33 ft)		

Signed by: Ship's representative

Name:

Rank: *Barge Master*

Saybolt representative

john harris

*Saybolt Inspector*

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EXXONMOBIL OIL CORPORATION  
22777 SPRINGWOODS VILLAGE PARKWAY  
77389-1425 Spring  
United States  
Mr. K.C. Mcilroy  
Trip: 2020-BT-VP-EHC120-11



Job No 13074/00001689.0000/01/I/20  
Report date 13 Dec 2020  
Installation Houston, United States of America, Vopak Terminal Deer Park

**Barge** CBC 317  
**Product** EHC 120

Outturn date: 12 Dec 2020

## Temperature Determination Report

### Operation: Arrival

Tank	Capacity%	Equipment Used	Upper °F	Middle °F	Lower °F	Average °F
1P		Portable Electronic Thermometer	70.6	70.6	70.6	70.60
1S		Portable Electronic Thermometer	70.6	70.6	70.6	70.60
2P		Portable Electronic Thermometer	70.4	70.4	70.4	70.40
2S		Portable Electronic Thermometer	70.3	70.3	70.3	70.30
3P		Portable Electronic Thermometer	70.1	70.1	70.1	70.10
3S		Portable Electronic Thermometer	70.3	70.3	70.3	70.30

Signed by: Ship's representative  
Name:  
Rank:

Saybolt representative  
Greg Galloway  
Saybolt Inspector

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Job No 13074/00001689.0000/01/I/20  
Report date 13 Dec 2020  
Installation Houston, United States of America, Vopak Terminal Deer Park

**Barge** CBC 317  
**Product** EHC 120

Outturn date: 12 Dec 2020

## Void Space/Ballast Reports

Compartment/ Tank	Product	Before	Quantity Product Gallons	After	Quantity Gallons
Forward Rake	Dry				
Port Voids	Dry				
Starboard Voids	Dry				
Aft Rake	Dry				

\* 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      Gallons  
Tanks used by ship for previous ballast voyage?

Signed by: Ship's representative  
Name:  
Rank:

Saybolt representative  
Greg Galloway  
Saybolt Inspector

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Job No 13074/00001689.0000/01/I/20  
Report date 13 Dec 2020  
Installation Houston, United States of America, Vopak Terminal Deer Park

**Barge CBC 317**  
**Product EHC 120**

Outturn date: 12 Dec 2020

## API Checklist Discharge

Before Discharge	Standards Ref.	
Participated in the key meeting	API 17.1	Yes
Closed / restricted measurement and sampling equipment used onboard	API 17.2	No
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	Not Applicable
Discussed measurements with US Customs inspector before proceeding	US Customs	Not Applicable
Used Saybolt calibrated gauging and temperature equipment	API 3.1a	Yes
Recorded shore automatic gauges and temperatures	API 17.1	Yes
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	Yes
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	No
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	Not Applicable
Collected load port samples from the vessel; signed receipt for vessel representative.	API 17.1	Not Applicable
Bunker quantities were recorded	API 17.1	Not Applicable
Volume calculated independently before discharging began	API 17.1	Not Applicable
Transit differences protested, if found	API 17.1	Not Applicable
After Discharge	Standards Ref.	
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	Yes
Check sea valve security and recorded seal numbers after discharge	API 17.1	Not Applicable
Bunker quantities were recorded after discharge	API 17.1	Yes
Shore and vessel line fill verified after vessel discharge	API 17.6	Yes
Every cargo tank gauged or visually verified for ROB	API 17.4	Yes
Measured ROB using Saybolt equipment at low end of tank	API 17.4	Yes
ROB measured at points other than the reference gauge point	API 17.4	No
ROB sampled / temperatured if necessary; samples labeled	API 17.4	No
Calculations (or tables) for trim and wedge were used as applicable	API 17.4	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
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

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