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Mr. Cedric Guilbert

For the attention of Mr. Allen Fraser

Report no. MX-0064A-02-2019
Date of report 28-Dec-19
Vessel Arctic Tern
Location Coatzacoalcos
Product Olmeca Crude Oil, Isthmus Crude Oil
B/Lading date 28-Dec-19

LOADED :

We have pleasure in enclosing herewith, our report for the above referenced inspection.

Please note the following with regard to the inspection carried out.

Letters of Protest were issued by ourselves regarding the following:

- the Letter of Protest on discrepancy between Bill of Lading and ship's figures
- the Letter of Protest on traces of water found in ship's tanks after loading.

Report distribution has been effected as follows:

To yourselves in original only together with our relevant invoice.
CC: . Attn

	Gross Metric Tons in Vacuo	Gross Metric Tons in Air
Bill of Lading	43,076.918	43,022.062
Vessel's loaded quantity	43,034.242	42,979.439
Difference	-42.676	-42.623
Difference, %	-0.099%	-0.099%
Bill of Lading	43,076.918	43,022.062
Vessel adjusted by VEF	43,042.851	42,988.037
Difference	-34.067	-34.025
Difference, %	-0.079%	-0.079%

Should you have any query, or require any additional information, please contact Robin Fromon

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Chief Officer of MV "Arctic Tern": Robin Fromon

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 B/Lading date 28-Dec-19

TIME LOG

Time	Date	Operations
23:36	24-Dec-19	Vessel arrived at "End of Sea Passage"
00:36	25-Dec-19	Notice of Readiness tendered
13:24	26-Dec-19	First line ashore
14:06	26-Dec-19	All Fast
14:45	26-Dec-19	Gangway secured
16:30	26-Dec-19	Surveyor on board
16:30	26-Dec-19	Notice of Readiness received
16:42	26-Dec-19	Commenced vessel's tank inspection
17:48	26-Dec-19	Hose 1 x 16" for Olmeca Crude Oil connected
18:48	26-Dec-19	Completed vessel's tank inspection
01:30	27-Dec-19	Commenced Loading of Olmeca Crude Oil
10:06	27-Dec-19	Completed Loading of Olmeca Crude Oil
13:12	27-Dec-19	Commenced Loading of Isthmus Crude Oil
06:48	28-Dec-19	Completed Loading of Isthmus Crude Oil
06:50	28-Dec-19	Commenced sampling vessel's tanks
06:50	28-Dec-19	Commenced measuring vessel's tanks
07:30	28-Dec-19	Completed sampling vessel's tanks
07:30	28-Dec-19	Completed measuring vessel's tanks
09:00	28-Dec-19	Completed cargo calculations
09:12	28-Dec-19	Hoses disconnected
09:30	28-Dec-19	Official cargo documents on board
09:42	28-Dec-19	Surveyor's documents on board
10:12	28-Dec-19	Surveyor left vessel
10:45	28-Dec-19	Vessel sailed (ETS)

DELAYS				REASON
From		To		
15:00	26-Dec-19	16:06	26-Dec-19	Awaiting shore readiness
18:48	26-Dec-19	01:30	27-Dec-19	Awaiting shore readiness to commence loading of Olmeca
11:48	27-Dec-19	13:12	27-Dec-19	Awaiting shore readiness to commence loading of Isthmus
13:18	27-Dec-19	15:42	27-Dec-19	Loading of Isthmus Crude Oil suspended to check quality

Remarks: (*) - As per information received from the Master of the vessel
 Average delivery rate for each grade is as follows:

2713.711 Mt in vacuo per hour for Olmeca Crude Oil, i.e. BOL Mt in vacuo divided by 8 hours 36 minutes.

1298.619 Mt in vacuo per hour for Isthmus Crude Oil, i.e. BOL Mt in vacuo divided by 15 hours 12 minutes.

Chief Officer of MV "Arctic Tern": Robin Fromon

Terminal Representative: Fernando Mendez

Report no. MX-0064A-02-2019
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 Location Coatzacoalcos
 Product Olmecca Crude Oil, Isthmus Crude Oil
 B/Lading date 28-Dec-19

TIME LOG
 Additional times

Time	Date	Operations
11:48	28-Dec-19	Hose 1 x 16" for Isthmus Crude Oil connected
07:12	25-Dec-29	Pilot on board

DELAYS				REASON
From		To		

Remarks: (*) - As per information received from the Master of the vessel
 Average delivery rate for each grade are as follows:
 2713.711 Mt in vacuo per hour for Olmecca Crude Oil, i.e. BOL Mt in vacuo divided by 8 hours 36 minutes.
 1298.619 Mt in vacuo per hour for Isthmus Crude Oil, i.e. BOL Mt in vacuo divided by 15 hours 12 minutes.

Chief Officer of MV "Arctic Tern": Robin Fromon
 Terminal Representative: Fernando Mendez

Report no. MX-0064A-02-2019
 Date of report 28-Dec-19
 Vessel Arctic Tern
 Location Coatzacoalcos
 B/Lading date 28-Dec-19

SUMMARY OF QUANTITIES

Comparison of Ship's figures and Bill of Lading
 ASTM calculation by ASTM D 1250-2004

Gross Quantities						Net Quantities					
Totals of the Bills Of Lading	Olmecca Crude Oil	Isthmus Crude Oil			Total	Olmecca Crude Oil	Isthmus Crude Oil			Total	
US BARRELS AT 60°C (GROSS STANDARD VOLUME)						US BARRELS AT 60°C (NET STANDARD VOLUME)					
Bill of Lading	176,010.350	146,617.350			322,627.700	175,613.810	146,344.050			321,957.860	
Vessel's loaded quantity	175,806.060	146,484.240			322,290.300	175,409.970	146,211.190			321,621.160	
Difference	-204.290	-133.110			-337.400	-203.840	-132.860			-336.700	
% Difference	-0.116%	-0.091%			-0.105%	-0.116%	-0.091%			-0.105%	
Bill of Lading	176,010.350	146,617.350			322,627.700	175,613.810	146,344.050			321,957.860	
Vessel adjusted by VEF	175,841.230	146,513.540			322,354.770	175,445.060	146,240.440			321,685.500	
Difference	-169.120	-103.810			-272.930	-168.750	-103.610			-272.360	
% Difference	-0.096%	-0.071%			-0.085%	-0.096%	-0.071%			-0.085%	
CUBIC METRES AT 15°C (GROSS STANDARD VOLUME)						CUBIC METRES AT 15°C (NET STANDARD VOLUME)					
Bill of Lading	27,969.70	23,299.11			51,268.81	27,906.68	23,255.68			51,162.36	
Vessel's loaded quantity	27,936.77	23,277.33			51,214.10	27,873.82	23,233.94			51,107.76	
Difference	-32.93	-21.78			-54.71	-32.86	-21.74			-54.60	
% Difference	-0.118%	-0.093%			-0.107%	-0.118%	-0.093%			-0.107%	
Bill of Lading	27,969.70	23,299.11			51,268.81	27,906.68	23,255.68			51,162.36	
Vessel adjusted by VEF	27,942.35	23,281.99			51,224.34	27,879.40	23,238.59			51,117.99	
Difference	-27.35	-17.12			-44.47	-27.28	-17.09			-44.37	
% Difference	-0.098%	-0.073%			-0.087%	-0.098%	-0.073%			-0.087%	
METRIC TONS IN AIR (GROSS WEIGHT)						METRIC TONS IN AIR (NET WEIGHT)					
Bill of Lading	23,307.988	19,714.074			43,022.062	23,235.734	19,668.731			42,904.465	
Vessel's loaded quantity	23,280.239	19,699.200			42,979.439	23,208.070	19,653.892			42,861.962	
Difference	-27.749	-14.874			-42.623	-27.664	-14.839			-42.503	
% Difference	-0.119%	-0.075%			-0.099%	-0.119%	-0.075%			-0.099%	
Bill of Lading	23,307.988	19,714.074			43,022.062	23,235.734	19,668.731			42,904.465	
Vessel adjusted by VEF	23,284.896	19,703.141			42,988.037	23,212.713	19,657.824			42,870.537	
Difference	-23.092	-10.933			-34.025	-23.021	-10.907			-33.928	
% Difference	-0.099%	-0.055%			-0.079%	-0.099%	-0.055%			-0.079%	
METRIC TONS IN VACUO (GROSS WEIGHT)						METRIC TONS IN VACUO (NET WEIGHT)					
Bill of Lading	23,337.915	19,739.003			43,076.918	23,265.568	19,693.603			42,959.171	
Vessel's loaded quantity	23,310.131	19,724.111			43,034.242	23,237.870	19,678.746			42,916.616	
Difference	-27.784	-14.892			-42.676	-27.698	-14.857			-42.555	
% Difference	-0.119%	-0.075%			-0.099%	-0.119%	-0.075%			-0.099%	
Bill of Lading	23,337.915	19,739.003			43,076.918	23,265.568	19,693.603			42,959.171	
Vessel adjusted by VEF	23,314.794	19,728.057			43,042.851	23,242.519	19,682.683			42,925.202	
Difference	-23.121	-10.946			-34.067	-23.049	-10.920			-33.969	
% Difference	-0.099%	-0.055%			-0.079%	-0.099%	-0.055%			-0.079%	

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SUMMARY OF QUANTITIES

Calculation of Net figures
 ASTM calculation by ASTM D 1250-2004

Olmeca Crude Oil	Isthmus Crude Oil			
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US BARRELS AT 60°C

						Total
<u>Bill of Lading</u>	Gross	176,010.350	146,617.350			322,627.700
	Sediments & Water	396.540	273.300			669.840
	Net	175,613.810	146,344.050			321,957.860
<u>Shore quantities</u>	Gross	176,010.350	146,617.350			322,627.700
	Sediments & Water	396.540	273.300			669.840
	Net	175,613.810	146,344.050			321,957.860
<u>Vessel's loaded quantity</u>	Gross	175,806.060	146,484.240			322,290.300
	Sediments & Water	396.090	273.050			669.140
	Net	175,409.970	146,211.190			321,621.160

CUBIC METRES AT 15°C

						Total
<u>Bill of Lading</u>	Gross	27,969.70	23,299.11			51,268.81
	Sediments & Water	63.02	43.43			106.45
	Net	27,906.68	23,255.68			51,162.36
<u>Shore quantities</u>	Gross	27,969.70	23,299.11			51,268.81
	Sediments & Water	63.02	43.43			106.45
	Net	27,906.68	23,255.68			51,162.36
<u>Vessel's loaded quantity</u>	Gross	27,936.77	23,277.33			51,214.10
	Sediments & Water	62.95	43.39			106.34
	Net	27,873.82	23,233.94			51,107.76

METRIC TONS IN AIR

						Total
<u>Bill of Lading</u>	Gross	23,307.988	19,714.074			43,022.062
	Sediments & Water	72.254	45.343			117.597
	Net	23,235.734	19,668.731			42,904.465
<u>Shore quantities</u>	Gross	23,235.734	19,668.731			42,904.465
	Sediments & Water					
	Net	23,235.734	19,668.731			42,904.465
<u>Vessel's loaded quantity</u>	Gross	23,280.239	19,699.200			42,979.439
	Sediments & Water	72.169	45.308			117.477
	Net	23,208.070	19,653.892			42,861.962

METRIC TONS IN VACUO

						Total
<u>Bill of Lading</u>	Gross	23,337.915	19,739.003			43,076.918
	Sediments & Water	72.347	45.400			117.747
	Net	23,265.568	19,693.603			42,959.171
<u>Shore quantities</u>	Gross	23,337.915	19,731.002			43,068.917
	Sediments & Water	72.347	37.399			109.746
	Net	23,265.568	19,693.603			42,959.171
<u>Vessel's loaded quantity</u>	Gross	23,310.131	19,724.111			43,034.242
	Sediments & Water	72.261	45.365			117.626
	Net	23,237.870	19,678.746			42,916.616

Criteria used for calculations:

Density at 15°C: (BOL)	0.8344	0.8472				
Average Sediments & Water, % mass:	0.31000	0.23000				
Average Sediments & Water, % vol.:	0.22530	0.18640				
US bbls at 60°F by Ch. 11.5 ex Cu M	6.292894290	6.292831331				
Density at 15°C: (Shore)	0.8344	0.8472				
Average Sediments & Water, % mass:	0.31000	0.18950				
Average Sediments & Water, % vol.:	0.22530	0.18640				
US Bbls@60°F/CuM@15°C by Ch. 11.5	6.292894290	6.292831331				
Density at 15°C: (Ship)	0.1326	0.1347				
Average Sediments & Water, % mass:	0.31000	0.23000				
Average Sediments & Water, % vol.:	0.22530	0.18640				
US Bbls@60°F/CuM@15°C by Ch. 11.5	6.416013762	6.412023948				

Remarks:

based on BOL



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CERTIFICATE OF QUANTITY

Olmecca Crude Oil

Bill of Lading No.	OCO/1
Bill of Lading date	28-Dec-19
Gross Metric Tons in vacuo	12,561.727
Net Metric Tons in vacuo	12,522.786
Gross Metric Tons in air	12,545.618
Net Metric Tons in air	12,506.727
Gross Long Tons	12,347.47
Net Long Tons	12,309.19
Gross US barrels at 60°F	94,738.28
Net US barrels at 60°F	94,524.84
Gross US gallons at 60°F	3,979,007.76
Net US gallons at 60°F	3,970,043.28
Gross Cubic Metres at at 15°C	15,054.802
Net Cubic Metres at at 15°C	15,020.884
B/L Density at 15°C in vacuo	0.8344
API gravity from Density at 15°C as per Chapter 11.5.	38.00

Above quantities determined by Louis Dreyfus Armateurs.

Criteria used for calculations:

Conv. factor from cu m at 15°C to US Bbls as per Chapter 11.5	6.29289429
Conv. factor from US Bbls to US Gallons by Table 1	42
Metric Tons in Air = GSV at 15°C * by Density at 15°C in air	0.83333
Long Tons = Metric Tons in Air * by	0.984206

B/L Gross Metric tons (vac) were determined by loadport Oil Terminal.
 Bill of Lading GSV at 15°C= B/L Metric Tons vacuo / B/L density at 15°C.

Net Volume (Cu M or Bbls or Gall) = Gross Volume (Cu M or Bbls or Gall) * ((100 - (S + W)vol%)/100)
 Net Metric Tons (in vacuo or in air) = Gross Metric Tons (in vacuo or in air) * ((100 - (S + W)mass%)/100)

Test results by loadport Oil Installation Laboratory:

Sediments, % mass	ASTM D4807	0.0800
Water, % mass	ASTM D4006	0.2300
Sediments, % volume	calculated	0.0334
Water, % volume	calculated	0.1919

Chief Officer of MV "Arctic Tern": Robin Fromon

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CERTIFICATE OF QUANTITY

Olmecca Crude Oil

Bill of Lading No.	OCO/2
Bill of Lading date	28-Dec-19
Gross Metric Tons in vacuo	10,776.188
Net Metric Tons in vacuo	10,742.782
Gross Metric Tons in air	10,762.370
Net Metric Tons in air	10,729.007
Gross Long Tons	10,592.39
Net Long Tons	10,559.560
Gross US barrels at 60°F	81,272.07
Net US barrels at 60°F	81,088.97
Gross US gallons at 60°F	3,413,426.94
Net US gallons at 60°F	3,405,736.74
Gross Cubic Metres at at 15°C	12,914.895
Net Cubic Metres at at 15°C	12,885.797
B/L Density at 15°C in vacuo	0.8344
API gravity from Density at 15°C as per Chapter 11.5.	38.00

Above quantities determined by Louis Dreyfus Armateurs.

Criteria used for calculations:

Conv. factor from cu m at 15°C to US Bbls as per Chapter 11.5
 Conv. factor from US Bbls to US Gallons by Table 1
 Metric Tons in Air = GSV at 15°C * by Density at 15°C in air
 Long Tons = Metric Tons in Air * by

6.2929
42
0.83333
0.984206

B/L Gross Metric tons (vac) were determined by loadport Oil Terminal.
 Bill of Lading GSV at 15°C= B/L Metric Tons vacuo / B/L density at 15°C.

Net Volume (Cu M or Bbls or Gall) = Gross Volume (Cu M or Bbls or Gall) * ((100 - (S + W)vol%)/100)
 Net Metric Tons (in vacuo or in air) = Gross Metric Tons (in vacuo or in air) * ((100 - (S + W)mass%)/100)

Test results by loadport Oil Installation Laboratory:

Sediments, % mass	ASTM D4807	0.0800
Water, % mass	ASTM D4006	0.2300
Sediments, % volume	calculated	0.0334
Water, % volume	calculated	0.1919

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CERTIFICATE OF QUANTITY

Isthmus Crude Oil

Bill of Lading No.	ICO/3
Bill of Lading date	28-Dec-19
Gross Metric Tons in vacuo	10,621.324
Net Metric Tons in vacuo	10,596.895
Gross Metric Tons in air	10,607.910
Net Metric Tons in air	10,583.511
Gross Long Tons	10,440.37
Net Long Tons	10,416.360
Gross US barrels at 60°F	78,893.06
Net US barrels at 60°F	78,746.00
Gross US gallons at 60°F	3,313,508.52
Net US gallons at 60°F	3,307,332.00
Gross Cubic Metres at at 15°C	12,536.974
Net Cubic Metres at at 15°C	12,513.605
B/L Density at 15°C in vacuo	0.8472
API gravity from Density at 15°C as per Chapter 11.5.	35.44

Above quantities determined by Louis Dreyfus Armateurs.

Criteria used for calculations:

Conv. factor from cu m at 15°C to US Bbls as per Chapter 11.5
 Conv. factor from US Bbls to US Gallons by Table 1
 Metric Tons in Air = GSV at 15°C * by Density at 15°C in air
 Long Tons = Metric Tons in Air * by

6.2928
42
0.84613
0.984206

B/L Gross Metric tons (vac) were determined by loadport Oil Terminal.
 Bill of Lading GSV at 15°C = B/L Metric Tons vacuo / B/L density at 15°C.

Net Volume (Cu M or Bbls or Gall) = Gross Volume (Cu M or Bbls or Gall) * ((100 - (S + W)vol%)/100)
 Net Metric Tons (in vacuo or in air) = Gross Metric Tons (in vacuo or in air) * ((100 - (S + W)mass%)/100)

Test results by loadport Oil Installation Laboratory:

Sediments, % mass	ASTM D4807	0.0200
Water, % mass	ASTM D4006	0.2100
Sediments, % volume	calculated	0.0085
Water, % volume	calculated	0.1779

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CERTIFICATE OF QUANTITY

Isthmus Crude Oil

Bill of Lading No.	ICO/4
Bill of Lading date	28-Dec-19
Gross Metric Tons in vacuo	9,117.679
Net Metric Tons in vacuo	9,096.708
Gross Metric Tons in air	9,106.164
Net Metric Tons in air	9,085.220
Gross Long Tons	8,962.34
Net Long Tons	8,941.730
Gross US barrels at 60°F	67,724.29
Net US barrels at 60°F	67,598.05
Gross US gallons at 60°F	2,844,420.18
Net US gallons at 60°F	2,839,118.10
Gross Cubic Metres at at 15°C	10,762.133
Net Cubic Metres at at 15°C	10,742.072
B/L Density at 15°C in vacuo	0.8472
API gravity from Density at 15°C as per Chapter 11.5.	35.44

Above quantities determined by Louis Dreyfus Armateurs.

Criteria used for calculations:

Conv. factor from cu m at 15°C to US Bbls as per Chapter 11.5
 Conv. factor from US Bbls to US Gallons by Table 1
 Metric Tons in Air = GSV at 15°C * by Density at 15°C in air
 Long Tons = Metric Tons in Air * by

6.2928
42
0.84613
0.984206

B/L Gross Metric tons (vac) were determined by loadport Oil Terminal.
 Bill of Lading GSV at 15°C = B/L Metric Tons vacuo / B/L density at 15°C.

Net Volume (Cu M or Bbls or Gall) = Gross Volume (Cu M or Bbls or Gall) * ((100 - (S + W)vol%)/100)
 Net Metric Tons (in vacuo or in air) = Gross Metric Tons (in vacuo or in air) * ((100 - (S + W)mass%)/100)

Test results by loadport Oil Installation Laboratory:

Sediments, % mass	ASTM D4807	0.0200
Water, % mass	ASTM D4006	0.2100
Sediments, % volume	calculated	0.0085
Water, % volume	calculated	0.1779



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VESSEL TANKS INSPECTION REPORT

Product Olmeca Crude Oil, Isthmus Crude Oil Date of tank inspection: 28-Dec-19
 B/Lading date 28-Dec-19 Time of tank inspection: 10:42

We hereby report that we, Louis Dreyfus Armateurs, attended on board the Vessel for the purpose of visually inspecting the nominated cargo tanks.

We report that the nominated cargo was to be loaded into the following Vessel tanks:

NOMINATED CARGO:	Olmeca Crude Oil	Isthmus Crude Oil			
PORTTANKS	1, 5	2, 3			
CENTRAL TANKS	Not available	Not available			
STARBOARD TANKS	5	1, 2, 3			

Each of the listed tanks is equipped with vapour lock for manual measurements.

Each of the listed tanks were inspected by us. In our opinion the listed cargo tanks have been found to be well drained.
 Inspection carried out from deck level.

PUMP(S) AND LINES

The line connections to the aforementioned cargo tanks were closed and/or blanked off at the time of inspection.

HEATING COILS WITHIN THE CARGO TANKS: None

TANK CONSTRUCTION MATERIAL reported by the Vessel to be:

Mild Steel

TANK COATING as reported by the Vessel ;

We have been informed that the interior of the cargo tanks is:

The type of coating was reported by the Vessel to be epoxy.

PREVIOUS 3 CARGOES CARRIED BY THE VESSEL reported to be

CARGO TANK	All cargo tanks
First Last Cargo	Olmeca Crude Oil
Second Last Cargo	Olmeca Crude Oil
Third Last Cargo	Olmeca Crude Oil

TANK CLEANING:

We have been informed by the vessel that tank cleaning was carried out as follows:
 Well drained only.

TYPE OF OBO:

This report does not cover the state of cleanliness and dryness of Vessel tanks, pump(s) and line systems at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo, for which the Vessel is fully responsible.

This report represents our findings at the time and on the date of our inspection

Chief Officer of MV "Arctic Tern": Robin Fromon

Terminal Representative: Fernando Mendez



Report no. MX-0064A-02-2019
 Date of report 28-Dec-19
 Vessel Arctic Tern
 Location Coatzacoalcos
 Product Olmeca Crude Oil, Isthmus Crude Oil
 B/Lading date 28-Dec-19

ON BOARD QUANTITY (OBQ) REPORT

Draft : FWD: 4.10 m, AFT: 5.60 m, Trim 1.50 m, List: 0.7° Port

Tank No	Total Actual	Total Observed Volume	Free Water		Gross Observed Volume	Non-Liquid	Liquid, US bbls	
	Dip, Mtrs	US bbls	Dip, Mtrs	US bbls	US bbls		by Trim correction	by Wedge formula
1P	0.030	9.699	0.015	2.069	7.630	7.630		
1S		21.662	0.020	1.855	19.807	15.064		4.743
2P		29.770			29.770	20.574		9.196
2S		23.153			23.153	23.153		
3P	0.030	9.152	0.030	9.152				
3S	0.020	9.642	0.025	9.642				
4P	0.095	68.181		5.088	63.093	19.108	43.985	
4S	0.095	18.378		2.440	15.938	15.938		
5P								
5S								
6P	0.010	13.032	0.010	13.032				
6S	0.025	17.416	0.025	17.416				
7P								
7S								
8P								
8S								
9P	0.115	45.010	0.035	16.511	28.499		28.499	
9S	0.110	61.860	0.040	26.291	35.569		35.569	
SP								
SS								
Tanks for reference onl		326.955		103.496	223.459	101.467	108.053	13.939

SUMMARY OF QUANTITY

Total Observed US bbls	Free Water US bbls	Gross Observed US bbls	Liquid Volume US bbls	Non-Liquid Volume US bbls
326.955	103.496	223.459	121.992	101.467

Previous product in tanks reported by the Vessel to be Olmeca Crude Oil
 Measurements by representative of the vessel and witnessed by Fernando Mendez, Terminal Representative.
 Calculations by Robin Fromon. Chief Officer of MV "Arctic Tern".
 Chief Officer of MV "Arctic Tern": Robin Fromon
 Terminal Representative: Fernando Mendez

Report no. MX-0064A-02-2019
 Date of report 28-Dec-19
 Vessel Arctic Tern
 Location Coatzacoalcos
 Product Olmeca Crude Oil, Isthmus Crude Oil
 B/Lading date 28-Dec-19

**LIQUID OBQ CALCULATION
 BY WEDGE FORMULA**

Draft (m) : FWD: 4.10 AFT: 5.60 Trim : 1.50 List: 0.7° Port

Formulae : $((U - (D \times F)) \times F) + S_1 = A$ $(A \times A \times W \times 0.5) \times 0.15866 / F = \text{US bbls}$

Tank	L Metres	U Metres	D Metres	D x F	S_1 Metres	A	A x A	W Metres	Volume US bbls
1P									
1S	18.612	1.940	17.631	0.152	0.038	0.053	0.003	4.556	4.743
2P	10.016	1.940	17.634	0.152	0.039	0.054	0.003	8.517	9.196
2S									
3P									
3S									
4P	10.008	2.405	17.634	0.152	0.070	0.089	0.008	10.508	30.644
4S	10.006	1.570	17.623	0.152	0.066	0.078	0.006	10.510	23.455
5P									
5S									
6P									
6S									
7P									
7S									
8P									
8S									
9P	9.391	7.170	17.627	0.152	0.064	0.125	0.016	5.707	32.273
9S	9.397	7.155	17.634	0.152	0.086	0.146	0.021	5.708	44.607
SP									
SS									

FIELD INFORMATION			L.B.P.	Length between perpendiculars
+Draft of ship Aft of	5.60	metres	L	Length of tank
-Draft of ship Forward of	4.10	metres	U	Distance from ullage point to aft bulkhead
=Trim of ship of	1.50	metres	D	Total gauge height
divided by L.B.P. of	173.90	metres	F	Trim factor
=Trim Factor of	0.00863	(F)	S_1	Sounding (Innage) of liquid oil corrected for list
			A	Adjusted innage at aft bulkhead
			W	Width of tank

Measurements by representative of the vessel and witnessed by Fernando Mendez, Terminal Representative.
 Calculations by Robin Fromon. Chief Officer of MV "Arctic Tern".

Remarks

Chief Officer of MV "Arctic Tern": Robin Fromon

Terminal Representative: Fernando Mendez

Report No. MX-0064A-02-2019
 Date 28-Dec-19
 Vessel Arctic Tern
 Location Coatzacoalcos
 Product Olmeca Crude Oil, Isthmus Crude Oil
 B/Lading date 28-Dec-19

VESSEL EXPERIENCE REPORT

The following "Vessel Experience Factor" (VEF), has been calculated according to IP Petroleum Measurement Manual Part 16 (Annex C, Method 1), in which the following is noted (see also remarks, below):

- (a) There must be a minimum of five qualifying voyages, but more are preferred.
- (b) Voyages prior to any structural modification which may affect cargo capacities do not qualify.
- (c) Voyages where shore quantities are not available do not qualify.
- (d) No minimum percentage capacity is specified for qualification.
- (e) It is not advised whether quantities should be stated as weight or volume.

Voyage	Date	Port	Cargo	Vessel's figure (A) Metric tons	Shore Figure (B) Metric tons	Vessel Load/Disch Ratio	Qualify
Last	11-Dec-19	Coatzacoalcos	Olmeca Crude Oil	45,991.197	45,989.534	1.00002	Yes
2nd last	3-Dec-19	Coatzacoalcos	Olmeca Crude Oil	46,927.118	46,970.699	0.99906	Yes
3rd last	31-Oct-19	Coatzacoalcos	Olmeca Crude Oil	46,240.587	46,269.615	0.99937	Yes
4th last	13-Oct-19	Coatzacoalcos	Olmeca Crude Oil	47,883.001	47,948.643	0.99862	Yes
5th last	6-Oct-19	Coatzacoalcos	Isthmus Crude Oil	49,630.103	49,651.340	0.99958	Yes
6th last	26-Sep-19	Coatzacoalcos	Isthmus Crude Oil	48,816.467	48,794.713	1.00043	Yes
7th last	7-Sep-19	Coatzacoalcos	Isthmus Crude Oil	49,610.103	49,651.340	0.99917	Yes
8th last	28-Aug-19	Coatzacoalcos	Olmeca Crude Oil	42,571.009	42,558.696	1.00028	Yes
9th last	10-Jul-19	Coatzacoalcos	Olmeca Crude Oil	41,803.914	41,792.686	1.00026	Yes
10th last	28-Jun-19	Coatzacoalcos	Isthmus Crude Oil	47,923.053	47,948.012	0.99948	Yes
11th last	28-Jun-19	Coatzacoalcos	Olmeca Crude Oil	41,426.013	41,476.915	0.99877	Yes
12th last	28-Jun-19	Coatzacoalcos	Isthmus Crude Oil	43,220.125	43,251.177	0.99928	Yes
13th last	31-May-19	Coatzacoalcos	Olmeca Crude Oil	44,682.610	44,651.478	1.00072	Yes
14th last	30-May-19	Coatzacoalcos	Olmeca Crude Oil	44,124.453	44,098.781	1.00057	Yes
15th last	30-May-19	Coatzacoalcos	Isthmus Crude Oil	42,424.587	42,412.706	1.00028	Yes
16th last	14-May-19	Coatzacoalcos	Olmeca Crude Oil	41,457.025	41,458.576	0.99995	Yes
17th last	7-Apr-19	Coatzacoalcos	Isthmus Crude Oil	44,978.644	45,020.476	0.99909	Yes
18th last	5-Apr-19	Coatzacoalcos	Isthmus Crude Oil	42,442.310	42,477.979	0.99915	Yes
19th last	4-Apr-19	Coatzacoalcos	Olmeca Crude Oil	41,921.394	41,919.587	1.00002	Yes
20th last	23-Feb-19	Coatzacoalcos	Isthmus Crude Oil	49,798.510	49,686.752	1.00225	Yes

Step (b) - Totals, excluding present cargo	903,872.223	904,029.705
Step (c) - Average Vessel Load Ratio (VLR), (A)/(B)	0.99983	
Permissible VLR range (plus / minus 0.3%)	1.00283	0.99683
Step (g) - Totals of qualifying voyages only	903,872.223	904,029.705
Step (h) - Average VLR as step (c), qualifying voyages only	0.99983	
VLR (VEF) range (plus / minus 0.3%)	1.00283	0.99683

Vessel's figures this voyage (Excluding OBQ)	43,034.242
Bill of Lading this voyage	43,076.918
Vessel loaded ratio this voyage	0.9990

Number of qualifying voyages: 20

Vessel Experience Factor 0.9998
--

The above mentioned quantities are for the last 0 voyages as obtained from ship's record supplied by Robin Fromon, Chief Officer of MV "Arctic Tern".

Cargo information can be verified in accordance with IP Petroleum manual Manual Part 16 (Annex C, Method 1). Shore quantities derived from ship cargo measurements do not qualify, whether adjusted for VEF or not.

Remarks:

Chief Officer of MV "Arctic Tern": Robin Fromon

Terminal Representative: Fernando Mendez

Report No. MX-0064A-02-2019
 Date 28-Dec-19
 Vessel Arctic Tern
 Location Coatzacoalcos
 Product Olmeca Crude Oil, Isthmus Crude Oil
 B/L date 28-Dec-19

VOID/BALLAST TANKS REPORT

BALLAST TANKS

Compartment / Tank	Before Loading		After Loading	
	Contents	Volume, US barrels	Contents	Volume, US barrels
Fore peak	Sea water	144.666	River water	905.733
Ballast tank 1P	Empty		River water	2,742.357
Ballast tank 1S	Empty		River water	2,635.431
Ballast tank 2P	Empty		River water	2,346.099
Ballast tank 2S	Empty		River water	2,226.593
Ballast tank 3P	Empty		River water	2,258.042
Ballast tank 3S	Empty		River water	2,377.548
Ballast tank 4P	Empty		River water	2,377.548
Ballast tank 4S	Empty		River water	2,258.042
Ballast tank 5P	Empty		River water	1,383.758
Ballast tank 5S	Empty		River water	1,257.962
After peak	Sea water	415.128	River water	792.516
Total:		559.794		23,561.629

IDLE CARGO TANKS

Compartment / Tank	Before Loading		After Loading	
	Contents	Volume, US barrels	Contents	Volume, US barrels
Res.	Empty		Empty	
Total:				

Remarks:
 Chief Officer of MV "Arctic Tern": Robin Fromon
 Terminal Representative: Fernando Mendez

Report no. MX-0064A-02-2019
 Date of report 28-Dec-19
 Vessel Arctic Tern
 Location Coatzacoalcos
 Product Olmeca Crude Oil, Isthmus Crude Oil
 B/Lading date 28-Dec-19

ULLAGE REPORT AFTER LOADING

**ASTM calculation by ASTM
 D 1250-2004**

Draft: FWD: 6.70 m, AFT: 6.84 m, Trim: 0.14 m, List: 0.6° Stbd

Tank No	Ullage Mtrs		Total Obs. Volume US bbls	Free Water		Gross Obs. Volume US bbls	Temp °F	V.C.F. by T 6A	*	Gross Standard Volume US bbls
	Actual	Corrected		Dip Mtrs	Volume US bbls					
1P	1.705	1.713	17,954.957	0.010	8.630	17,946.327	85.5	0.98747	1	17,721.460
1S	1.890	1.875	17,824.544	0.010	10.573	17,813.971	85.3	0.98756	1	17,592.365
2P	1.650	1.662	16,339.016			16,339.016	85.6	0.98776	2	16,139.026
2S	1.680	1.669	16,270.256			16,270.256	85.6	0.98776	2	16,071.108
3P	1.645	1.648	17,185.222	0.020	18.693	17,166.529	85.6	0.98776	2	16,956.411
3S	1.615	1.617	17,147.049	0.010	8.227	17,138.822	85.6	0.98776	2	16,929.043
4P	1.755	1.764	17,689.445			17,689.445	85.5	0.98747	1	17,467.796
4S	1.710	1.701	17,677.815			17,677.815	85.8	0.98729	1	17,453.130
5P	1.455	1.465	18,037.542			18,037.542	84.7	0.98782	1	17,817.845
5S	1.440	1.437	17,949.849			17,949.849	84.9	0.98773	1	17,729.604
6P	1.765	1.768	17,722.944	0.005	12.171	17,710.773	85.5	0.98784	2	17,495.410
6S	1.785	1.775	17,625.811	0.015	18.523	17,607.288	85.3	0.98793	2	17,394.768
7P	1.325	1.327	18,084.351			18,084.351	84.7	0.98782	1	17,864.084
7S	1.330	1.323	18,054.078			18,054.078	84.9	0.98773	1	17,832.554
8P	1.230	1.236	17,905.833			17,905.833	85.1	0.98802	2	17,691.321
8S	1.255	1.252	17,777.766			17,777.766	85.3	0.98793	2	17,563.188
9P	1.755	1.769	17,480.906	0.015	9.976	17,470.930	85.5	0.98747	1	17,252.019
9S	1.740	1.720	17,468.629	0.020	5.648	17,462.981	85.3	0.98756	1	17,245.742
SP	1.140	1.156	5,205.045			5,205.045	85.5	0.98784	2	5,141.752
SS	1.145	1.140	5,217.216			5,217.216	84.9	0.98810	2	5,155.131
Totals			326,618.274		92.441	326,525.833				322,513.757

Product Code (*)	Product Name(s)	Factor by Chapt. 11.5	TOV US bbls	Free Water US bbls	GOV US bbls
1	Olmeca Crude Oil	6.29289	178,222.116	34.827	178,187.289
2	Isthmus Crude Oil	6.29283	148,396.158	57.614	148,338.544
Long Tons = Metric tons (air) x 0.984206		Totals:	326,618.274	92.441	326,525.833

Product Code (*)	API @ 60°F	W.C.F. by Chapt. 11.5	G.S.V. @60°F US bbls	OBQ (GOV) US bbls	G.S.V. @60°F Loaded, US bbls	G.S.V. @15°C Loaded, Cu Mtrs	Metric Tons (in air)
1	38.0000	0.13242	175,976.599	170.536	175,806.063	27,937.23	23,280.678
2	35.4400	0.13446	146,537.158	52.923	146,484.235	23,277.95	19,695.699
Totals:			322,513.757	223.459	322,290.298		42,976.377

Origin for Densities: Density at 15°C in vac is based on Bill of Lading density 15°C by T 53A.

Origin of Measurements: measured by ship's UTI tape and water finding paste.

Remarks: Measurements were taken from ship's hatches.

Sea valve Nos.: Starboard: LDA 256345 Port: LDA 256344

Chief Officer of MV "Arctic Tern": Robin Fromon

Terminal Representative: Fernando Mendez

Long Tons	*	Metric Tons (in vacuo)
22,912.98	1	23,310.571
19,384.63	2	19,720.606
42,297.61		43,031.177

Report no. MX-0064A-02-2019
 Date of report 28-Dec-19
 Vessel Arctic Tern
 Location Coatzacoalcos
 Product Olmeca Crude Oil, Isthmus Crude Oil
 B/Lading date 28-Dec-19

BUNKER REPORT
(Marine Diesel Oil)

ASTM calculation by ASTM D 1250-2004

Average Bunker consumption per day, according to Vessel's Officer (Quantities in MT VAC)			
While at Sea:	6 Mt	While at Port: Nil	While at Anchor: 2 Mt
Last Port of Call:	Tuxpan	Time / Date of Sailing:	09:24 22-Dec-19
Bunker on Sailing from last port, Mt (vac)	(as advised by Vessel)		35 Mt

UPON BERTHING		Date & Time of inspection		26-Dec-19 16:06		Trim Correction applied		Yes
Draft	FWD	4.10 m, AFT		5.60 m, Trim		1.50 m, List		0.7° Port
Tank No	Innage Mtrs	G.O.V. US bbls	Temp °F	API Gravity 60°F	VCF Table 6B	G.S.V. US bbls	Metric Tons (Air)	Metric Tons (Vacuo)
Diesel Oil tank Port	1.110	71.075	86.0	37.31	0.98771	70.201	9.334	9.347
Service tank	Auto	37.110	113.0	37.31	0.97485	36.177	4.810	4.817
Settling tank	Auto	15.096	113.0	37.31	0.97485	14.716	1.957	1.959
Diesel Oil tank Stbd	1.070	101.266	86.0	37.31	0.98771	100.021	13.299	13.317
Totals:		224.547				35.137	29.400	29.439

UPON SAILING		Date & Time of inspection		28-Dec-19 07:42		Trim Correction applied		Yes
Draft	FWD	6.70 m, AFT		6.84 m, Trim		0.14 m, List		0.6° Stbd
Tank No	Innage Mtrs	G.O.V. US bbls	Temp °F	API Gravity 60°F	VCF Table 6B	G.S.V. US bbls	Metric Tons (Air)	Metric Tons (Vacuo)
Diesel Oil tank Port	1.110	71.075	86.0	37.31	0.98771	70.201	9.334	9.347
Service tank	Auto	37.110	113.0	37.31	0.97485	36.177	4.810	4.817
Settling tank	Auto	15.096	113.0	37.31	0.97485	14.716	1.957	1.959
Diesel Oil tank Stbd	1.070	101.266	86.0	37.31	0.98771	100.021	13.299	13.317
Totals:		224.547				221.115	29.400	29.440

Bunker loaded at this port: None Aforementioned densities are as advised by the Vessel.
 Remarks: Densities are as advised by ship's Chief Engineer

Terminal Representative: Fernando Mendez

Chief Engineer of MV "Arctic Tern": R. Penaflor

Report no. MX-0064A-02-2019
 Date of report 28-Dec-19
 Vessel Arctic Tern
 Location Coatzacoalcos
 Product Olmeca Crude Oil, Isthmus Crude Oil
 B/Lading date 28-Dec-19

BUNKER REPORT
(Heavy Fuel Oil)

ASTM calculation by ASTM D 1250-2004

Average Bunker consumption per day, according to Vessel's Officer (Quantities in MT VAC)			
While at Sea:	6 Mt	While at Port:	Nil
		While at Anchor:	1.2 Mt
Last Port of Call:	Tuxpan	Time / Date of Sailing:	09:24 22-Dec-19
Bunker on Sailing from last port, Mt (vac)	(as advised by Vessel)		122 Mt

UPON BERTHING Date & Time of inspection 26-Dec-19 16:06 Trim Correction applied Yes

Draft FWD 4.10 m, AFT 5.60 m, Trim 1.50 m, List 0.7° Port

Tank No	Innage Mtrs	G.O.V. US bbls	Temp °F	API Gravity 60°F	VCF Table 6B	G.S.V. US bbls	Metric Tons (Air)	Metric Tons (Vacuo)
Fuel Oil tank 1P	1.033	189.889	104.0	20.1400	0.9819	186.450	27.602	27.634
Fuel Oil tank 1S	8.030	491.737	122.0	17.6100	0.9750	479.439	72.184	72.261
Fuel Oil tank 2P	Nil							
Fuel Oil tank 2S	Nil							
Service tank	Auto	66.043	185.0	20.1200	0.9481	62.618	9.271	9.282
Settling tank	Auto	51.576	179.6	20.1200	0.9504	49.018	7.258	7.266
Totals:		799.245				777.525	116.315	116.443

UPON SAILING Date & Time of inspection 28-Dec-19 07:42 Trim Correction applied Yes

Draft FWD 6.70 m, AFT 6.84 m, Trim 0.14 m, List 0.6° Stbd

Tank No	Innage Mtrs	G.O.V. US bbls	Temp °F	API Gravity 60°F	VCF Table 6B	G.S.V. US bbls	Metric Tons (Air)	Metric Tons (Vacuo)
Fuel Oil tank 1P	1.035	189.889	104.0	20.1400	0.9819	186.450	27.602	27.634
Fuel Oil tank 1S	8.030	491.737	122.0	17.6100	0.9750	479.439	72.184	72.261
Fuel Oil tank 2P	Nil							
Fuel Oil tank 2S	Nil							
Service tank	Auto	66.043	185.0	20.1200	0.9481	62.618	9.271	9.282
Settling tank	Auto	51.576	179.6	20.1200	0.9504	49.018	7.258	7.266
Totals:		799.245				777.525	116.315	116.443

Bunker loaded at this port: None Aforementioned densities are as advised by the Vessel.
 Remarks: Densities are as advised by ship's Chief Engineer

Terminal Representative: Fernando Mendez

Chief Engineer of MV "Arctic Tern": R. Penaflor



Report no. MX-0064A-02-2019
 Date of report 28-Dec-19
 Vessel Arctic Tern
 Location Coatzacoalcos
 Product Olmeca Crude Oil, Isthmus Crude Oil
 B/Lading date 28-Dec-19

RECEIPT FOR DOCUMENTS

To: Master of MV Arctic Tern (Gildas Maire)

Please sign for receipt of the documents listed below:

OBQ report	One
Time Log	One
Void/Ballast Tank Report	One
Vessel Experience Report	One
Ullage Report	One
Document & Sample Receipt	One
Bunker Inspection Reports	Two
Letter of Protest	One
Tank Inspection Report	One
Statement of Facts	One

Instructions regarding documents: 1 set for Vessel's own use

Master of MV "Arctic Tern": Gildas Maire

Louis Dreyfus Armateurs Chief Officer: Robin Fromon

RECEIPT FOR SAMPLES

To: Master of mv Arctic Tern (Gildas Maire)

Please sign for receipt of the samples listed below:

Sample Size, Ltr	Number of Samples	Seal Numbers	Sample Description
1.000	2	LDA 10620, LDA 10621 - for vessel	Multiple Ship's Tank Composite Samples (UML after loading) of Olmeca Crude Oil ex: 1P, 1S, 4P, 4S, 5P, 5S, 7P, 7S, 9P, 9S,
1.000	2	LDA 10622, Ida 10623 - for vessel	Multiple Ship's Tank Composite Samples (UML after loading) of Isthmus Crude Oil ex: 2P, 2S, 3P, 3S, 6P, 6S, 8P, 8S, SP, SS,
1.000	1	LDA 234567	Multiple Shore tank composite sample (before loading)
TOTAL	5		

Instruction regarding samples: to be held within a period of 90 days.

Chief Officer of MV "Arctic Tern": Robin Fromon

Terminal Representative: Fernando Mendez

CERTIFICATE OF SHORE BASED QUANTITY

Olmeca Crude Oil

Report no. MX-0064A-02-2019
Date of report 28-Dec-19
Vessel Arctic Tern
Location Coatzacoalcos

Gross Metric Tons in vacuo	23,337.915
Net Metric Tons in vacuo	23,265.568
Gross Metric Tons in air	23,235.734
Net Metric Tons in air	23,235.734
Gross Long Tons	22,939.86
Net Long Tons	22,868.75
Gross US barrels at 60°F	176,010.35
Net US barrels at 60°F	175,613.81
Gross US gallons at 60°F	7,392,434.70
Net US gallons at 60°F	7,375,780.02
Gross Cubic Metres at at 15°C	27,969.697
Net Cubic Metres at at 15°C	27,906.681
B/L Density at 15°C in vacuo	0.8344
API gravity from Density at 15°C as per Chapter 11.5.	38.00

Above quantities determined by Louis Dreyfus Armateurs.

Criteria used for calculations:

Conv. factor from cu m at 15°C to US Bbls as per Chapter 11.5	6.29289429
Conv. factor from US Bbls to US Gallons by Table 1	42
Metric Tons in Air = GSV at 15°C * by Density at 15°C in air	0.83075
Long Tons = Metric Tons in Air * by	0.984206

B/L Gross Metric tons (vac) were determined by loadport Oil Terminal.
Bill of Lading GSV at 15°C= B/L Metric Tons vacuo / B/L density at 15°C.

Net Volume (Cu M or Bbls or Gall) = Gross Volume (Cu M or Bbls or Gall) * ((100 - (S + W)vol%)/100)
Net Metric Tons (in vacuo or in air) = Gross Metric Tons (in vacuo or in air) * ((100 - (S + W)mass%)/100)

Average pro rata calculated results based on Shore side calculations:

(Sediments + Water), % mass	0.3100
(Sediments + Water), % volume	0.2253

Terminal Representative: Fernando Mendez



Report no. MX-0064A-02-2019
Date of report 28-Dec-19
Vessel Arctic Tern
Location Coatzacoalcos
Product Olmeca Crude Oil, Isthmus Crude Oil
B/Lading date 28-Dec-19

STATEMENT OF FACTS

To: Whom it may concern

We have been appointed as Inspectors on the aforementioned shipment. On behalf of our Principals we wish to draw attention of all parties to the following:

The following cargo manifold valves were sealed by Louis Dreyfus Armateurs Representative after loading:

Port FWD:	LDA 12345
Port AFT :	LDA 56732
Starboard FWD:	LDA 35267
Starboard AFT :	LDA 78654

We hereby reserve the right of our Principals to make reference to the above at a later date.

Chief Officer of MV "Arctic Tern": Robin Fromon

Terminal Representative: Fernando Mendez

STATEMENT OF FACTS

Report no.	MX-0064A-02-2019
Date of report	28-Dec-19
Vessel	Arctic Tern
Location	Coatzacoalcos
Product	Olmecca Crude Oil, Isthmus Crude Oil
B/Lading date	28-Dec-19

To: Whom it may concern

We have been appointed as Inspectors on the aforementioned shipment. On behalf of our Principals we wish to draw attention of all parties to the following:

Line displacement was not performed because of lack of permission from Oil Terminal.

We hereby reserve the right of our Principals to make reference to the above at a later date.

Chief Officer of MV "Arctic Tern": Robin Fromon

Terminal Representative: Fernando Mendez



Report no. MX-0064A-02-2019
Date of report 28-Dec-19
Vessel Arctic Tern
Location Coatzacoalcos
Product Olmeca Crude Oil
B/Lading date 28-Dec-19

LETTER OF PROTEST

To:	Whom it may concern
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We have been appointed as Inspectors on the aforementioned shipment. On behalf of our Principals we do hereby lodge protest in respect of:

The apparent ship/shore difference noted between the Bill of Lading Quantity and the Quantity measured on board the above named Vessel.

ASTM calculation by ASTM D 1250-2004

	<u>GROSS WEIGHT</u>	
	Metric Tons in Vacuo	Metric Tons in Air
Bill of Lading	23,337.915	23,307.988
Vessel's loaded quantity	23,310.131	23,280.239
Difference	-27.784	-27.749
Difference, %	-0.119%	-0.119%

	<u>GROSS WEIGHT</u>	
	Metric Tons in Vacuo	Metric Tons in Air
Bill of Lading	23,337.915	23,307.988
Vessel loaded quantity adjusted hv VEF	23,314.794	23,284.896
Difference	-23.121	-23.092
Difference, %	-0.099%	-0.099%

We hereby reserve the right of our Principals to make reference to the above at a later date.

Chief Officer of MV "Arctic Tern": Robin Fromon

Terminal Representative: Fernando Mendez

Report no. MX-0064A-02-2019
 Date of report 28-Dec-19
 Vessel Arctic Tern
 Location Coatzacoalcos
 Product Isthmus Crude Oil
 B/Lading date 28-Dec-19

LETTER OF PROTEST

To:	Whom it may concern
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We have been appointed as Inspectors on the aforementioned shipment. On behalf of our Principals we do hereby lodge protest in respect of:

The apparent ship/shore difference noted between the Bill of Lading Quantity and the Quantity measured on board the above named Vessel.

ASTM calculation by ASTM D 1250-2004

	<u>GROSS WEIGHT</u>	
	Metric Tons in Vacuo	Metric Tons in Air
Bill of Lading	19,739.003	19,714.074
Vessel's loaded quantity	19,724.111	19,699.200
Difference	-14.892	-14.874
Difference, %	-0.075%	-0.075%

	<u>GROSS WEIGHT</u>	
	Metric Tons in Vacuo	Metric Tons in Air
Bill of Lading	19,739.003	19,714.074
Vessel loaded quantity adjusted hv VEF	19,728.057	19,703.141
Difference	-10.946	-10.933
Difference, %	-0.055%	-0.055%

We hereby reserve the right of our Principals to make reference to the above at a later date.

Chief Officer of MV "Arctic Tern": Robin Fromon

Terminal Representative: Fernando Mendez



Report no. MX-0064A-02-2019
 Date of report 28-Dec-19
 Vessel Arctic Tern
 Location Coatzacoalcos
 Product Olmeca Crude Oil, Isthmus Crude Oil
 B/Lading date 28-Dec-19

SAMPLE LIST

Size, Ltr	Number of samples	Seal Number	Sample Description
2.500	1	Open	Multiple Ship's Tank Composite Sample (UML after loading) of Olmeca Crude Oil ex: 1P, 1S, 4P, 4S, 5P, 5S, 7P, 7S, 9P, 9S,
2.500	1	Open	Multiple Ship's Tank Composite Sample (UML after loading) of Isthmus Crude Oil ex: 2P, 2S, 3P, 3S, 6P, 6S, 8P, 8S, SP, SS,
0.450	10	Open	Single Ship's Tank Composite Samples (UML after loading) of Olmeca Crude Oil ex: 1P, 1S, 4P, 4S, 5P, 5S, 7P, 7S, 9P, 9S,
0.450	10	Open	Single Ship's Tank Composite Samples (UML after loading) of Isthmus Crude Oil ex: 2P, 2S, 3P, 3S, 6P, 6S, 8P, 8S, SP, SS,

Total: 22 samples

Retained samples are intended to be held within a period of 90 days.
 Chief Officer of MV "Arctic Tern": Robin Fromon