

**CUSTOMER:** CNOOC PETROLEUM BRASIL LTDA/ CHINA OFFSHORE OIL  
(SINGAPORE) INTERNATIONAL PTE LTD  
**VESSEL:** DPST DAQING KNUITSEN  
**VOYAGE:** 018  
**PRODUCT:** MERO CRUDE OIL

**PETROINSPEC REF:** PIS007/24

**FPSO:** FPSO Pioneiro de Libra - Santos Basin  
**CARGO REF:** FPL OC 005  
**DATE:** April 28th to 29th, 2024

#### 1.0. DPST: DPST DAQING KNUITSEN FIGURES

1.1. Total Quantity loaded by DPST DAQING KNUITSEN (without VEF) as per ASTM 60A Table, with Density/API and S&W from FPSO In- Line Blend sample analysis, obtained at FPSO Pioneiro de Libra - Santos Basin Laboratory.

##### SUMMARY OF QUANTITIES BY TABLE ASTM 60 A

Measurements	Gross	Net
Liters (20°C)	76.411.630	76.182.396
Kilograms (Vac)	67.058.846	66.857.671
Metric Tons (Vac)	67.058,846	66.857,671
Kilograms (Air)	66.961.044	66.760.161
Metric Tons (Air)	66.961,044	66.760,161
Long Tons (Air)	65.903,496	65.705,787
US BBLs (60°F)	478.906,63	477.469,91
US GALLONS (60°F)	20.114.078,30	20.053.736,30
Cubic Meters (60°F)	76.140,024	75.911,6044
Cubic Meters (20°C)	76.411,630	76.182,396
Liters (15°C)	76.106.567	75.878.249

1.2. Total Quantity loaded by DPST DAQING KNUITSEN(Without VEF) as per ASTM 6A Table with Density/API and S&W from FPSO In- Line Blend sample analysis, obtained at FPSO Pioneiro de Libra - Santos Basin Laboratory.

##### SUMMARY OF QUANTITIES BY TABLE ASTM 6 A

Measurements	Gross	Net
US BBLs (60°F)	478.931,11	477.494,31
Kilograms (Vac)	67.063.980	66.862.790
Metric Tons (Vac)	67.063,980	66.862,790
Kilograms (Air)	66.982.710	66.781.760
Metric Tons (Air)	66.982,710	66.781,760
Long Tons (Air)	65.924,820	65.727,040
US GALLONS (60°F)	20.115.106,60	20.054.761,00
Cubic Meters (60°F)	76.143,916	75.915,48
Cubic Meters (20°C)	76.415,551	76.186,304
Liters (15°C)	76.110.473	75.882.141

1.3. Total Quantity loaded by DPST DAQING KNUITSEN (without VEF) as per ASTM 54A Table, with Density/API and S&W from FPSO In- Line Blend sample analysis, obtained at FPSO Pioneiro de Libra - Santos Basin Laboratory.

##### SUMMARY OF QUANTITIES BY TABLE ASTM 54 A

Measurements	Gross	Net
Liters (15°C)	76.108.816	75.880.490
Kilograms (Vac)	67.044.256	66.843.124
Metric Tons (Vac)	67.044,256	66.843,124
Kilograms (Air)	66.963.022	66.762.133
Metric Tons (Air)	66.963,022	66.762,133
Long Tons (Air)	65.905,444	65.707,728
US BBLs (60°F)	478.920,78	477.484,02
US GALLONS (60°F)	20.114.672,80	20.054.328,80

## 2.0. FPSO FPSO Pioneiro de Libra - Santos Basin FIGURES

2.1. Total Quantity delivered by FPSO Pioneiro de Libra - Santos Basin as per ASTM 60A Table, obtained by FPSO's flowmeter measurements with Density/API and S&W from FPSO In-Line Blend sample analysis, obtained at FPSO Pioneiro de Libra - Santos Basin Laboratory.

SUMMARY OF QUANTITIES BY TABLE ASTM 60 A		
Measurements	Gross	Net
Liters (20°C)	76.793.872	76.563.491
Kilograms (Vac)	67.394.302	67.192.120
Metric Tons (Vac)	67.394,302	67.192,120
Kilograms (Air)	67.296.010	67.094.123
Metric Tons (Air)	67.296,010	67.094,123
Long Tons (Air)	66.233,173	66.034,473
US BBLs (60°F)	481.302,31	479.858,41
US GALLONS (60°F)	20.214.697,08	20.154.053,15
Cubic Meters (60°F)	76.520,907	76.291,345
Cubic Meters (20°C)	76.793,872	76.563,491
Liters (15°C)	76.487.283	76.257.822

2.2. Total Quantity delivered by FPSO Pioneiro de Libra - Santos Basin as per ASTM 6A Table, obtained by FPSO's flowmeter measurements with Density/API and S&W from FPSO In-Line Blend sample analysis, obtained at FPSO Pioneiro de Libra - Santos Basin Laboratory.

SUMMARY OF QUANTITIES BY TABLE ASTM 6 A		
Measurements	Gross	Net
US BBLs (60°F)	481.319,53	479.875,57
Kilograms (Vac)	67.398.430	67.196.230
Metric Tons (Vac)	67.398,430	67.196,230
Kilograms (Air)	67.316.750	67.114.800
Metric Tons (Air)	67.316,750	67.114,800
Long Tons (Air)	66.253,590	66.054,830
US GALLONS (60°F)	20.215.420,30	20.154.773,94
Cubic Meters (60°F)	76.523,644	76.294,073
Cubic Meters (20°C)	76.796,635	76.566,244
Liters (15°C)	76.490.035	76.260.564

2.3. Total Quantity delivered by FPSO Pioneiro de Libra - Santos Basin as per ASTM 54A Table, obtained by FPSO's flowmeter measurements with Density/API and S&W from FPSO In-Line Blend sample analysis, obtained at FPSO Pioneiro de Libra - Santos Basin Laboratory.

SUMMARY OF QUANTITIES BY TABLE ASTM 54 A		
Measurements	Gross	Net
Liters (15°C)	76.489.105	76.259.638
Kilograms (Vac)	67.379.253	67.177.115
Metric Tons (Vac)	67.379,253	67.177,115
Kilograms (Air)	67.297.613	67.095.720
Metric Tons (Air)	67.297,613	67.095,720
Long Tons (Air)	66.234,750	66.036,046
US BBLs (60°F)	481.313,77	479.869,840
US GALLONS (60°F)	20.215.178,54	20.154.533,08

## 3.0. FPSO Pioneiro de Libra - Santos Basin FIGURES

3.1. Analysis results of FPSO In-Line Blend sample obtained at FPSO Pioneiro de Libra - Santos Basin Laboratory on

TEST	METHODS	RESULT
Density at 20°C (g/cm³)	ASTM D1298	0,8776
Density at 15°C (g/cm³)	ASTM D1298	0,8809
°API (60°F)	ASTM D1298	29,0
BSW (% vol)	ASTM D4007	0,30
Salt (mg/kg)	ASTM D3230	36,0

Remark: According to our consistency analysis, all quality statements are in compliance with the quality specification contained in the documentary instruction received. We did not have surveyors on board for this operation, all information is in accordance with what was received from the ship.

#### 4.0. COMPARISON REPORT

##### 4.1. Difference in Liters at 20°C NSV, as per ASTM 60A Table.

ITEM	RESULT
Total Delivered by the FPSO	76.563,491
Total Received by the Vessel	76.182,396
Difference - FPSO & Vessel	381,095

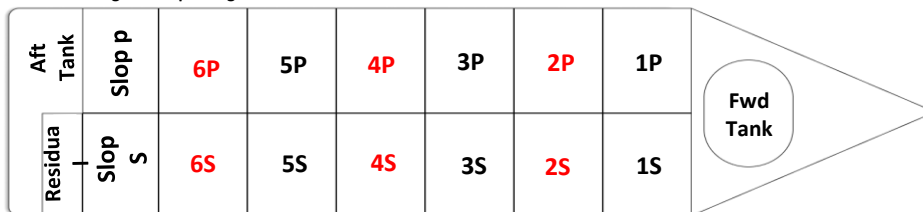
##### 4.2. Difference in Bbls at 60°F NSV, as per ASTM 6A Table.

ITEM	RESULT
Total Delivered by the FPSO	479.875,57
Total Received by the Vessel	477.494,31
Difference - FPSO & Vessel	2.381,26

Remark: According to our consistency analysis, all quality statements are in compliance with the quality specification contained in the documentary instruction received. We did not have surveyors on board for this operation, all information is in accordance with what was received from the ship.

#### 5.0. Comments

Stowage on Ship's Cargo Tanks Marked in Red:



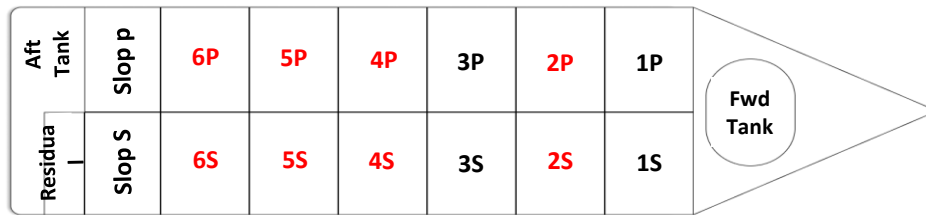
ITEM	RESULT
V.E.F	Not applied
O.B.Q. (Before Loading - m³)	Nil
Free Water delivered by FPSO	-
Total Free Water in Ship's Tanks (m³)	20,224.
Total Free Water in Ship's Tanks (Bbls)	127,21.
Slop/Residual tank(s) for receiving Flushing	-
Slop/Residual Measure After Initial Flushing	-
Slop/Residual Measure After backflushing	-
Flushing Measurement by FPSO	-
H2S - Ship's Tanks Before operation (ppm)	-
H2S - Ship's Tanks After operation (ppm)	-

#### 6.0. Drafts

DRAFT (m)	FWD	AFT	Trim	List
Arrival	8,00	9,00	1,00	
Arrival Condition	( ) Trim by the Bow ( x ) Trim by the Stern ( ) Even Keel ( ) List by Port ( ) List by Starboard ( ) No List			
Departure				
Departure Condition	( ) Trim by the Bow ( ) Trim by the Stern ( x ) Even Keel ( ) List by Port ( ) List by Starboard ( ) No List			

## 7.0. Comments

Stowage on Ship's Ballast Tanks Marked in Red:



## 8.0. Bunkers

Bunkers (m)	Fuel Oil	Diesel
Departure from Port (Mt Vac)		
Arrival at FPSO (Mt Vac)	1.297,82	247,33
Departure from FPSO (Mt Vac)	1.276,24	247,35
Arrival at Port (Mt Vac)		

## 9.0. Timesheet

Date	Time	Event
April 27th, 2024	4:35	Cargo Surveyor arrived at Novo Rio Bus Station;
-	8:05	Cargo Surveyor arrived in Angra dos Reis City;;
-	8:20	Cargo Surveyor arrived at Cais das Bombas;
-	9:00	Cargo Surveyor on board service boat;
-	10:05	Cargo Surveyor on board Daqing Knutsen;
-	10:05	Commenced key meeting with Chief Officer;
-	10:20	Completed key meeting with Chief Officer;
-	10:24	Anchor up;
-	10:58	Commenced OBQ tanks inspection;
-	11:00	C.O.S.P/ Vessel sailing to Pioneiro de Libra FPSO area;
-	11:36	Completed OBQ tanks inspection;
April 28th, 2024	0:01	E.O.S.P/ Vessel arrived in Pioneiro de Libra FPSO area;
-	0:01	N.O.R Tendered
-	0:01	Daqing Knutsen awaiting instructions from FPSO to start approaching;
-	17:00	Commenced mooring;
-	17:36	Completed mooring;
-	17:54	Commenced hose connection;
-	18:36	Completed hose connection;
-	18:36	N.O.R Accepted;
-	18:57	Commenced pressure test;
-	19:07	Completed pressure test;
-	19:15	Commenced water flushing;
-	19:55	Completed water flushing;
-	20:10	Commenced line displacement;
-	20:14	Completed line displacement;
-	20:18	Commenced Offloading Mero Crude Oil;
April 29th, 2024	8:59	Completed Offloading Mero Crude Oil;
-	9:00	Commenced cargo tanks inspection;
-	9:30	Completed cargo tanks inspection;
-	9:30	Commenced cargo calculations;
-	9:30	Commenced water backflushing;
-	10:06	Completed cargo calculations;
-	10:34	Completed water backflushing;
-	15:54	Commenced hose disconnection;
-	16:12	Completed hose disconnection;
-	16:36	Commenced unmooring;
-	17:00	Completed unmooring;

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