

CUSTOMER: CNOOC PETROLEUM BRASIL LTDA / CHINA OFFSHORE OIL (SINGAPORE)
VESSEL: DPST NS PIONEER
VOYAGE: NS-V24-08
PRODUCT: BUZIOS CRUDE OIL

PETROINSPEC REF: PIS0010/24
FPSO: FPSO P-75
CARGO REF: P-75 OC 013
DATE: JUNE 12th TILL JUNE 14th, 2024

1.0. DPST: DPST NS PIONEER FIGURES

1.1. Total Quantity loaded by DPST NS PIONEER (without VEF) as per ASTM 60A Table, with Density/API and S&W from FPSO In- Line Blend sample analysis, obtained at FPSO P-75 Laboratory.

SUMMARY OF QUANTITIES BY TABLE ASTM 60 A

Measurements	Gross	Net
Liters (20°C)	157.672,440	157.357,095
Kilograms (Vac)	138.278,730	138.002,172
Metric Tons (Vac)	138.278,730	138.002,172
Kilograms (Air)	138.092,229	137.816,045
Metric Tons (Air)	138.092,229	137.816,045
Long Tons (Air)	135.911,273	135.639,451
US BBLs (60°F)	988.199,85	986.223,45
US GALLONS (60°F)	41.504.393,77	41.421.384,95
Cubic Meters (60°F)	157.111,127	156.796,905
Cubic Meters (20°C)	157.672,440	157.357,095
Liters (15°C)	157.042,092	156.728,008

1.2. Total Quantity loaded by DPST NS PIONEER(Without VEF) as per ASTM 6A Table with Density/API and S&W from FPSO In- Line Blend sample analysis, obtained at FPSO P-75 Laboratory.

SUMMARY OF QUANTITIES BY TABLE ASTM 6 A

Measurements	Gross	Net
US BBLs (60°F)	988.228,66	986.252,21
Kilograms (Vac)	138.293,960	138.017,370
Metric Tons (Vac)	138.293,960	138.017,370
Kilograms (Air)	138.126,250	137.849,990
Metric Tons (Air)	138.126,250	137.849,990
Long Tons (Air)	135.944,750	135.672,860
US GALLONS (60°F)	41.505.603,70	41.422.592,80
Cubic Meters (60°F)	157.115,708	156.801,477
Cubic Meters (20°C)	157.677,067	157.361,714
Liters (15°C)	157.046,701	156.732,609

1.3. Total Quantity loaded by DPST NS PIONEER (without VEF) as per ASTM 54A Table, with Density/API and S&W from FPSO In- Line Blend sample analysis, obtained at FPSO P-75 Laboratory.

SUMMARY OF QUANTITIES BY TABLE ASTM 54 A

Measurements	Gross	Net
Liters (15°C)	157.046,013	156.731,920
Kilograms (Vac)	138.263,310	137.986,782
Metric Tons (Vac)	138.263,310	137.986,782
Kilograms (Air)	138.095,677	137.819,485
Metric Tons (Air)	138.095,677	137.819,485
Long Tons (Air)	135.914,667	135.642,836
US BBLs (60°F)	988.224,52	986.248,07
US GALLONS (60°F)	41.505.429,80	41.422.418,90

2.0. FPSO FPSO P-75 FIGURES

2.1. Total Quantity delivered by FPSO P-75 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 P-75 Laboratory.

SUMMARY OF QUANTITIES BY TABLE ASTM 60 A		
Measurements	Gross	Net
Liters (20°C)	157.848,584	157.532.887
Kilograms (Vac)	138.433.208	138.156.342
Metric Tons (Vac)	138.433,208	138.156,342
Kilograms (Air)	138.246.499	137.970.006
Metric Tons (Air)	138.246,499	137.970,006
Long Tons (Air)	136.063,106	135.790,981
US BBLs (60°F)	989.303,82	987.325,21
US GALLONS (60°F)	41.550.760,46	41.467.658,99
Cubic Meters (60°F)	157.286,644	156.972,071
Cubic Meters (20°C)	157.848,584	157.532,887
Liters (15°C)	157.227.410	156.912.954

2.2. Total Quantity delivered by FPSO P-75 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 P-75 Laboratory.

SUMMARY OF QUANTITIES BY TABLE ASTM 6 A		
Measurements	Gross	Net
US BBLs (60°F)	989.365,79	987.387,05
Kilograms (Vac)	138.498.590	138.221.580
Metric Tons (Vac)	138.498,590	138.221,580
Kilograms (Air)	138.330.690	138.054.030
Metric Tons (Air)	138.330,690	138.054,030
Long Tons (Air)	136.145,960	135.873,670
US GALLONS (60°F)	41.553.363,04	41.470.256,10
Cubic Meters (60°F)	157.296,496	156.981,902
Cubic Meters (20°C)	157.858,502	157.542,784
Liters (15°C)	157.227.410	156.912.954

2.3. Total Quantity delivered by FPSO P-75 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 P-75 Laboratory.

SUMMARY OF QUANTITIES BY TABLE ASTM 54 A		
Measurements	Gross	Net
Liters (15°C)	157.221.917	156.907.473
Kilograms (Vac)	138.418.176	138.141.339
Metric Tons (Vac)	138.418,176	138.141,339
Kilograms (Air)	138.250.355	137.973.854
Metric Tons (Air)	138.250,355	137.973,854
Long Tons (Air)	136.066,902	135.794,768
US BBLs (60°F)	989.331,41	987.352,75
US GALLONS (60°F)	41.551.919,34	41.468.815,46

3.0. FPSO P-75 FIGURES

3.1. Analysis results of FPSO In-Line Blend sample obtained at FPSO P-75 Laboratory on

TEST	METHODS	RESULT
Density at 20°C (g/cm³)	ASTM D1298	0,8770
Density at 15°C (g/cm³)	ASTM D1298	0,8804
°API (60°F)	ASTM D1298	29,1
BSW (% vol)	ASTM D4007	0,200
Salt (mg/kg)	ASTM D3230	28,0

4.0. COMPARISON REPORT

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

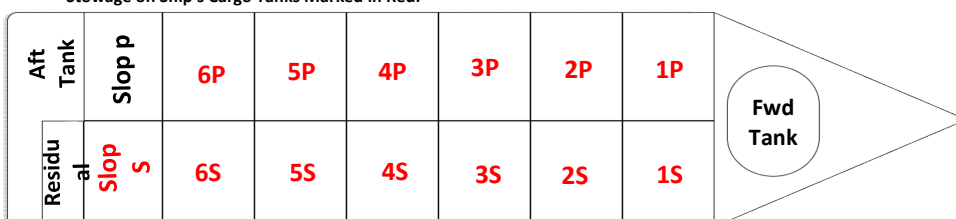
ITEM	RESULT
Total Delivered by the FPSO	157.532.887
Total Received by the Vessel	157.357,095
Difference - FPSO & Vessel	175.792

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

ITEM	RESULT
Total Delivered by the FPSO	987.387,050
Total Received by the Vessel	986.252,210
Difference - FPSO & Vessel	1.134,84

5.0. Comments

Stowage on Ship's Cargo Tanks Marked in Red:



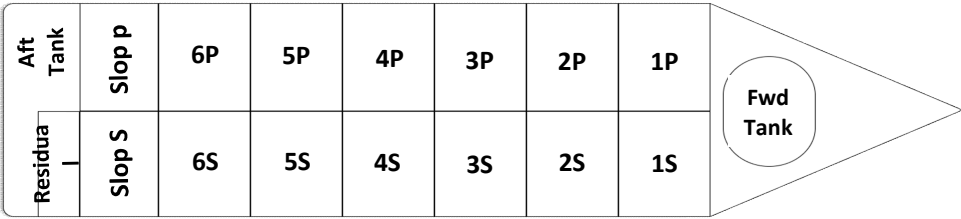
ITEM	RESULT
V.E.F	Not applied
O.B.Q. (Before Loading - m³)	Nil
Free Water delivered by FPSO	-
Total Free Water in Ship's Tanks (m³)	800
Total Free Water in Ship's Tanks (Bbls)	5.032
Slop/Residual tank(s) for receiving Flushing	-
Slop/Residual Measure After Initial Flushing	-
Slop/Residual Measure After 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	6,50	9,50	3,00	
Arrival Condition	<input type="checkbox"/> Trim by the Bow <input checked="" type="checkbox"/> Trim by the Stern <input type="checkbox"/> Even Keel <input type="checkbox"/> List by Port <input type="checkbox"/> List by Starboard <input type="checkbox"/> No List			
Departure	16,30	16,30		
Departure Condition	<input type="checkbox"/> Trim by the Bow <input type="checkbox"/> Trim by the Stern <input checked="" type="checkbox"/> Even Keel <input type="checkbox"/> List by Port <input type="checkbox"/> List by Starboard <input type="checkbox"/> 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)	1.196,663	253.308
Departure from FPSO (Mt Vac)	1.160.611	253.308
Arrival at Port (Mt Vac)		

9.0. Timesheet

Date	Time	Event
JUNE 11th, 2024	10:00	SURVEYOR ONBOARD AT NS PIONEER IN ANGRA DOS RERIS ACHORAGE AREA
-	10:30	COMMENCED KEY MEETING
-	11:00	COMPLETED KEY MEETING
-	11:34	COMPLETED TANK INSPECTIONS (NO OBQ)
-	11:34	COMMENCED CALCULATIONS (SLOP P)
-	11:40	COMPLETED CALCULATIONS (SLOP P)
JUNE 12th, 2024	3:00	E.O.S.P., VESSEL ARRIVED AT FPSO 10Nm
-	10:55	COMMENCED MOORING
-	12:10	COMMENCED HOSE CONNECTION
-	13:25	COMPLETED HOSE CONNECTION
-	14:40	COMPLETED PRESSURE TEST 5bar
-	14:50	COMMENCED LINE FLUSHING
-	15:40	COMPLETED LINE FLUSHING
-	17:03	COMMENCED LOINE DISPLACEMENT
-	17:28	COMPLETED LINE DISPLACEMENT
-	17:36	COMMENCED OFFLOADING
-	19:20	MAX RATE
JUNE 14th, 2024	2:52	COMPLETED OFFLOAD
-	3:00	COMMENCED BACK FLUSHING
-	3:15	COMMENCED SAMPLING
-	6:18	COMPLETED FINAL TANK INSPECTION
-	6:18	COMPLETED FINAL TANK INSPECTION
-	6:18	COMMENCED CARGO CALCULATIONS
-	7:05	COMPLETED CARGO CALCULATIONS
-	7:25	COMMENCED HOSE DISCONNECTION
-	8:15	COMPLETED HOSE DISCONNECTION
-	8:15	COMMENCED UNMOORING
-	8:51	COMPLETED UNMOORING
-	9:05	VESSEL 500m OFF FPSO ZONE
-	-	-
-	-	-
-	-	-

9.0. Timesheet

Date	Time	Event
January 00, 1900	0:00	0
January 00, 1900	0:00	0