

CUSTOMER: CNOOC PETROLEUM BRASIL LTDA / CHINA OFFSHORE OIL (SINGAPORE) INT. PTE LTD

PETROINSPEC REF: PIS004/24

VESSEL: DPST NS PIONEER
VOYAGE: NS-V24-05
PRODUCT: BUZIOS CRUDE OIL

FPSO: P-75 / SANTOS BASIN
CARGO REF: P75 OC 012
DATE: April 09th to 10th, 2024

1.0. 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)	79.738.166	79.698.297
Kilograms (Vac)	69.922.398	69.887.437
Metric Tons (Vac)	69.922,398	69.887,437
Kilograms (Air)	69.828.047	69.793.133
Metric Tons (Air)	69.828,047	69.793,133
Long Tons (Air)	68.725,220	68.690,857
US BBLs (60°F)	499.752,34	499.502,47
US GALLONS (60°F)	20.989.598,47	20.979.103,70
Cubic Meters (60°F)	79.454,225	79.414,498
Cubic Meters (20°C)	79.738,166	79.698,297
Liters (15°C)	79.419.313	79.379.603

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)	499.772,68	499.522,79
Kilograms (Vac)	69.938.816	69.903.846
Metric Tons (Vac)	69.938,816	69.903,846
Kilograms (Air)	69.854.000	69.819.072
Metric Tons (Air)	69.854,000	69.819,072
Long Tons (Air)	68.750,762	68.716,386
US GALLONS (60°F)	20.990.452,56	20.979.957,18
Cubic Meters (60°F)	79.457,459	79.417,730
Cubic Meters (20°C)	79.741,427	79.701,556
Liters (15°C)	79.422.561	79.382.849

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)	79.421.581	79.381.870
Kilograms (Vac)	69.914.818	69.879.860
Metric Tons (Vac)	69.914,818	69.879,860
Kilograms (Air)	69.830.041	69.795.126
Metric Tons (Air)	69.830,041	69.795,126
Long Tons (Air)	68.727,182	68.692,818
US BBLs (60°F)	499.766,61	499.516,73
US GALLONS (60°F)	20.990.197,62	20.979.702,66

2.0. 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)	It was identified by our chemist surveyor on board in the FPSO P-75 a flowmeter problem. The equipment was not in operation when the offloading commenced. Because of this, the quantities were not determined.	
Kilograms (Vac)		
Metric Tons (Vac)		
Kilograms (Air)		
Metric Tons (Air)		
Long Tons (Air)		
US BBLS (60°F)		
US GALLONS (60°F)		
Cubic Meters (60°F)		
Cubic Meters (20°C)		
Liters (15°C)		

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)	It was identified by our chemist surveyor on board in the FPSO P-75 a flowmeter problem. The equipment was not in operation when the offloading commenced. Because of this, the quantities were not determined.	
Kilograms (Vac)		
Metric Tons (Vac)		
Kilograms (Air)		
Metric Tons (Air)		
Long Tons (Air)		
US GALLONS (60°F)		
Cubic Meters (60°F)		
Cubic Meters (20°C)		
Liters (15°C)		

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)	It was identified by our chemist surveyor on board in the FPSO P-75 a flowmeter problem. The equipment was not in operation when the offloading commenced. Because of this, the quantities were not determined.	
Kilograms (Vac)		
Metric Tons (Vac)		
Kilograms (Air)		
Metric Tons (Air)		
Long Tons (Air)		
US BBLS (60°F)		
US GALLONS (60°F)		

3.0. FPSO P-75 ANALYSIS

3.1. Analysis results of FPSO In-Line Blend sample obtained at FPSO P-75 Laboratory on April 10th, 2024.

TEST	METHODS	RESULT
Density at 20°C (g/cm³)	ASTM D5002	0,8769
Density at 15°C (g/cm³)	ASTM D5002	0,8803
°API (60°F)	ASTM D5002	29,1
BSW (% vol)	ASTM D4007	0,05
Salt (mg/kg)	ASTM D3230	26,0

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	N/A
Total Received by the Vessel	79.698.297
Difference - FPSO & Vessel	N/A

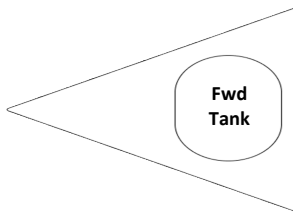
4.2. Diference in Bbls at 60°F NSV, as per ASTM 6A Table.

ITEM	RESULT
Total Delivered by the FPSO	N/A
Total Received by the Vessel	499.522,79
Difference - FPSO & Vessel	N/A

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. It was identified by our chemist surveyor on board in the FPSO P-75 a flowmeter problem. The equipment was not in operation when the offloading commenced. Because this, the quantities were not determined.

5.0. Comments

Stowage on Ship's Cargo Tanks Marked in Red:

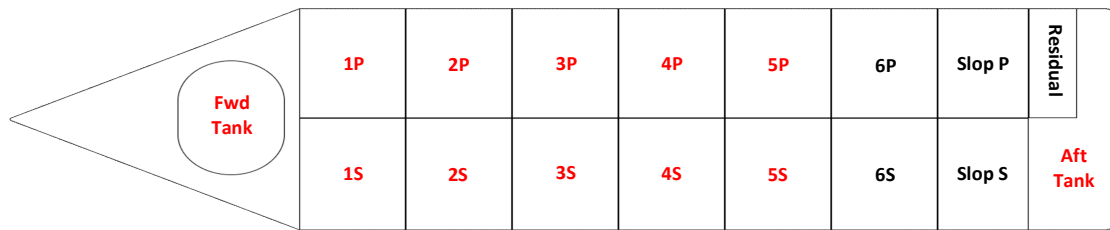
	1P	2P	3P	4P	5P	6P	Slop P	Residual
	1S	2S	3S	4S	5S	6S	Slop S	Aft Tank

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)	Nil.
Total Free Water in Ship's Tanks (Bbls)	Nil.
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	12,30	12,30	0,00	
Arrival Condition	<div>() Trim by the Bow () Trim by the Stern (x) Even Keel () List by Port () List by Starboard () No List</div>			
Departure	16,80	16,80	0,00	
Departure Condition	<div>() Trim by the Bow () Trim by the Stern (x) Even Keel () List by Port () List by Starboard () No List</div>			

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)	1.358,61	300,72
Departure from FPSO (Mt Vac)	1.364,30	300,80
Arrival at Port (Mt Vac)	-	-

9.0. Timesheet

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