



CUSTOMER:	CNOOC PETROLEUM BRASIL LTDA / CHINA OFFSHORE OIL (SINGAPORE) INT. PTE LTD
VESSEL:	DPST NS PIONEER
VOYAGE:	NS-V24-07
PRODUCT:	BUZIOS CRUDE OIL
TERMINAL:	FPSO P-76 / SANTOS BASIN
CARGO REF:	P76 OC 013
DATE:	June 02nd to 03rd, 2024
PETROINSPEC REF:	PIS009/24

**Dear Customer:**

**Please find enclosed our Survey Report for the above referenced vessel.**

**Thanks and best regards,**

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

VESSEL: DPST NS PIONEER  
VOYAGE: NS-V24-07  
PRODUCT: BUZIOS CRUDE OIL

TERMINAL: FPSO P-76 / SANTOS BASIN  
CARGO REF: P76 OC 013  
DATE: June 02nd to 03rd, 2024

Attention: CAPTAIN/CHIEF OFFICER  
Confirmation of receipt of all related cargo documents by signing this certificate

DOCUMENTS	STATUS
MASTER RECEIPT OF DOCUMENTS	Yes
VESSEL CARGO ORDERS	Yes
SUMMARY OF QUANTITIES	Yes
SHIP'S FIGURES BY TABLE ASTM 60A	Yes
SHIP'S FIGURES BY TABLE ASTM 6A	Yes
VESSEL EXPERIENCE FACTOR	Yes
ANALYSIS REPORT	Yes
LETTER OF PROTEST / APPARENT DISCREPANCY	Yes
TIME LOG	Yes
O.B.Q. REPORT	Yes
INSPECTION CERTIFICATE OF TANKS	Yes
BUNKER REPORT - FUEL OIL	Yes
BUNKER REPORT - DIESEL OIL	Yes
SAMPLE RECEIPT	Yes
SAMPLES TO PETROINSPEC	Yes
H2S REPORT BEFORE / AFTER	Yes
SLOPS RECORD REPORT BEFORE	Yes
SLOPS RECORD REPORT AFTER	Yes

DIGITAL VERSION OF THE REPORT: The documents outlined in this report are consistent with the signed copy, which has been signed and stamped by the Terminal and/or Vessel Representatives. The original field documents are accessible upon request from our principals.

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

PETROINSPEC REF: PIS009/24  
TERMINAL: FPSO P-76 / SANTOS BASIN  
CARGO REF: P76 OC 013  
DATE: June 02nd to 03rd, 2024

VESSEL: DPST NS PIONEER  
VOYAGE: NS-V24-07  
PRODUCT: BUZIOS CRUDE OIL

Product	Customer Order Quantity			Vessel Available Capacity			Vessel Requested Quantity		
BUZIOS C.O.	(   ) MT	(   x   ) M³	(   ) BBLS	(   ) MT	(   x   ) M³	(   ) BBLS	(   ) MT	(   x   ) M³	(   ) BBLS
	80.000,00 +/- 5%			81.728,40			80.000,00 +/- 5%		

STOP LOADING BY: 

(   X   ) Shore

(   ) Vessel

NOTES:  
1.0. Client Order Should Included Any Option And Party May Exercise Such Option.  
2.0. If vessel does not request Maximum Quantity state reason below:

Comment:

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

PETROINSPEC REF: PIS009/24

VESSEL: DPST NS PIONEER  
VOYAGE: NS-V24-07  
PRODUCT: MERO CRUDE OIL  
DETAILS: OFFLOADING AT FPSO P-76

TERMINAL: FPSO P-76 / SANTOS BASIN  
CARGO REF: P76 OC 013  
DATE: June 02nd to 03rd, 2024

Summary of Quantities By Table ASTM 60 A - Vessel		
Without VEF Applied		
Measurements	Gross	Net
Liters (20°C)	79.855.655	79.656.016
Kilograms (Vac)	69.905.640	69.730.876
Metric Tons (Vac)	69.905,640	69.730,876
Kilograms (Air)	69.834.513	69.659.927
Metric Tons (Air)	69.834,513	69.659,927
Long Tons (Air)	68.731,584	68.559,755
US BBLS (60°F)	500.481,80	499.230,59
US GALLONS (60°F)	21.020.235,42	20.967.684,87

Summary of Quantities By Table ASTM 60 A - FPSO		
Figures Based at FPSO P76 Flowmeter		
Measurements	Gross	Net
Liters (20°C)	79.633.551	79.434.467
Kilograms (Vac)	69.711.211	69.536.932
Metric Tons (Vac)	69.711,211	69.536,932
Kilograms (Air)	69.616.484	69.442.442
Metric Tons (Air)	69.616,484	69.442,442
Long Tons (Air)	68.516,997	68.345,705
US BBLS (60°F)	499.089,80	497.842,07
US GALLONS (60°F)	20.961.771,46	20.909.366,99

Comparative Ship - Shore			ASTM 60A	
Measurement	Ship	Shore	Difference (L)	Difference (%)
Liters (20°C)	79.656.016	79.434.467	221.549	0,28 %

Comparative Ship - Shore			ASTM 60A	
Measurement	Ship	Shore	Difference (L)	Difference (%)
Net US BBLS (60°F)	499.230,59	497.842,07	1.388,52	0,28 %

Remark:

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

PETROINSPEC REF: PIS009/24

VESSEL: DPST NS PIONEER

VOYAGE: NS-V24-07

PRODUCT: MERO CRUDE OIL

DETAILS: OFFLOADING AT FPSO P-76

TERMINAL: FPSO P-76 / SANTOS BASIN

CARGO REF: P76 OC 013

DATE: June 02nd to 03rd, 2024

Summary of Quantities By Table ASTM 54 A - Vessel

Without VEF Applied

Measurements	Gross	Net
Liters (20°C)	79.538.172	79.339.325
Kilograms (Vac)	69.922.007	69.747.201
Metric Tons (Vac)	69.922,007	69.747,201
Kilograms (Air)	69.837.091	69.662.497
Metric Tons (Air)	69.837,091	69.662,497
Long Tons (Air)	68.734,121	68.562,285
US BBLS (60°F)	500.500,27	499.249,01
US GALLONS (60°F)	21.021.011,30	20.968.458,40

Summary of Quantities By Table ASTM 54 A - FPSO

Figures Based at FPSO P76 Flowmeter

Measurements	Gross	Net
Liters (20°C)	79.316.228	79.117.937
Kilograms (Vac)	69.703.101	69.528.843
Metric Tons (Vac)	69.703,101	69.528,843
Kilograms (Air)	69.618.419	69.444.373
Metric Tons (Air)	69.618,419	69.444,373
Long Tons (Air)	68.518,902	68.347,604
US BBLS (60°F)	499.103,67	497.855,91
US GALLONS (60°F)	20.962.354,17	20.909.948,18

Comparative Ship - Shore

ASTM 60A

Measurement	Ship	Shore	Difference (L)	Difference (%)
Liters (20°C)	79.339.325	79.117.937	221.388	0,28 %

Comparative Ship - Shore

ASTM 60A

Measurement	Ship	Shore	Difference (L)	Difference (%)
Net US BBLS (60°F)	499.249,01	497.855,91	1.393,10	0,28 %

Remark:

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

PETROINSPEC REF: PIS009/24

VESSEL: DPST NS PIONEER  
VOYAGE: NS-V24-07  
PRODUCT: MERO CRUDE OIL  
DETAILS: OFFLOADING AT FPSO P-76

TERMINAL: FPSO P-76 / SANTOS BASIN  
CARGO REF: P76 OC 013  
DATE: June 02nd to 03rd, 2024

Summary of Quantities By Table ASTM 6 A - Vessel

Without VEF Applied

Measurements	Gross	Net
US BBLS (60°F)	500.507,39	499.256,13
Kilograms (Vac)	69.911.040	69.736.260
Metric Tons (Vac)	69.911,040	69.736,260
Kilograms (Air)	69.826.080	69.651.510
Metric Tons (Air)	69.826,080	69.651,510
Long Tons (Air)	68.723,280	68.551,470
US GALLONS (60°F)	21.021.310,40	20.968.757,50
Liters (15°C)	79.539.319	79.340.472

Summary of Quantities By Table ASTM 6 A - DPST

Figures Based at FPSO P76 Flowmeter

Measurements	Gross	Net
US BBLS (60°F)	499.106,45	497.858,68
Kilograms (Vac)	69.715.350	69.541.060
Metric Tons (Vac)	69.715,350	69.541,060
Kilograms (Air)	69.630.630	69.456.550
Metric Tons (Air)	69.630,630	69.456,550
Long Tons (Air)	68.530,930	68.359,600
US GALLONS (60°F)	20.962.470,98	20.910.064,56
Liters (15°C)	79.316.685	79.118.393

Comparative Ship - Shore

Measurement	Ship	Shore	Difference (L)	Difference (%)
Liters (20°C)	499.256,13	497.858,68	1.397,45	0,28 %

Remark:



Final Draft (m)		FWD	AFT	Trim	List						
		16,30	16,30	0	0						
Vessel Tanks	Measurements (m)	Ship's Line (l)	TOV (l)	Free Water (l)	GOV (l)	TEMP (°C)	VCF (15 °C)	GSV (l @15 °C)	S&W	NSV (l @15 °C)	
1P	2,010 m		11.574.170		11.574.170	41,70	0,97845	11.324.747	33.974	11.290.773	
1S	2,000 m		11.517.830		11.517.830	41,60	0,97853	11.270.542	33.812	11.236.730	
2P	1,710 m		13.888.470		13.888.470	41,80	0,97837	13.588.062	40.764	13.547.298	
2S	1,650 m		13.728.110		13.728.110	41,80	0,97837	13.431.171	40.294	13.390.877	
3P	1,260 m		13.828.350		13.828.350	41,90	0,97829	13.528.137	40.584	13.487.553	
3S	1,370 m		13.914.940		13.914.940	41,80	0,97837	13.613.960	40.842	13.573.118	
4P	1,140 m		13.892.780		13.892.780	41,90	0,97829	13.591.168	40.774	13.550.394	
4S	1,360 m		13.897.370		13.897.370	41,90	0,97829	13.595.658	40.787	13.554.871	
5P	1,250 m		13.861.380		13.861.380	42,00	0,97821	13.559.341	40.678	13.518.663	
5S	1,490 m		13.836.590		13.836.590	41,80	0,97837	13.537.305	40.612	13.496.693	
6P	1,720 m		13.231.100		13.231.100	41,90	0,97829	12.943.853	38.832	12.905.021	
6S	1,610 m		13.314.420		13.314.420	41,90	0,97829	13.025.364	39.076	12.986.288	
SLOP S	3,020 m		1.795.390		1.795.390	40,60	0,97934	1.758.297	5.275	1.753.022	
LINES			136.672		136.672	41,80	0,97837	133.716	401	133.315	
										</	

Summary					
Measurements		Gross	Net	Conversion Factors Based on MPMS 11.5.3	
	Liters (15°C)	158,901.321	158,424.616	V.E.F.	1,000
	Kilograms (Vac)	139,054.546	138,637.381	Average of Density (VAC @ 15°C)	0,875
	Metric Tons (Vac)	139,054.546	138,637.381	Average of Density (VAC @ 20°C)	0,871
	Kilograms (Air)	138,884.806	138,468.151	BSW (% Vol)	0,3
	Metric Tons (Air)	138,884.806	138,468.151	Factor / Metric Ton (Air)	1,14412314
	Long Tons (Air)	136,691,333	136,281,258	Factor / Long Ton (Air)	1,16248278
	US BBLs (60°F)	999,909,20	996,909,47	Factor / US BBLs (60°F)	6,29264246
	US Gallons (60°F)	41,996,186,40	41,870,197,70	Factor / US Gallons (60°F)	4
				Average °API	30,
	Free Water (m³)	0,000	0,000		

**Note:** Volume Correction Factor used correspond to API Tables 2004 and Unit Conversion Factors Basis on API Chapter 11.5.3

**REMARK :** Volume Correction Factor used correspond to API Tables 2004 and Unit Conversion Factors Basis on API Chapter 11.5.3

MEASUREMENTS DEVICE UTI : MODEL: GTEX SERIAL NUMBER: G-25792 CALIBRATION EXPIRE, AUGUST 28th, 2024

Summary of quantities basis on Liters @ 15 °C from Liters @ 20°C using Table 54, other units basis on MPMS 11.5.3



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

**PETROINSPEC REF: PIS009/24**

VESSEL: DPST NS PIONEER

**VOYAGE:** NS-V24-07

**PRODUCT: BUZIOS CRUDE OIL**

### DETAILS: OFFLOADING AT FPSO P-76

**SHIP:** FPSO P-76 / SANTOS BASIN

**CARGO REF: P76 OC 013**

**DATE:** June 02nd to 03rd, 2024

Final Draft (m)	FWD	AFT	Trim	List
	16,60	16,60	0,00	0

Vessel Tanks	Measurements (m)	Ship's Line (bbls)	TOV (bbls)	Free Water (bbbs)	GOV (bbbs)	TEMP (°F)	VCF	GSV (bbbs)	S&W	NSV (bbbs)
1P	1,530 m	TRACES	74.532,93	0,00	74.532,93	99,3	0,98255	73.232,33	183	73.049,25
1S	1,430 m	TRACES	74.504,75	0,00	74.504,75	99,5	0,98246	73.197,94	183	73.014,95
3P	1,230 m	TRACES	87.090,97	0,00	87.090,97	99,5	0,98246	85.563,39	214	85.349,48
3S	1,350 m	TRACES	87.593,91	0,00	87.593,91	99,3	0,98255	86.065,40	215	85.850,24
5P	1,320 m	0,00	86.875,55	0,00	86.875,55	100,0	0,98224	85.332,64	213	85.119,31
5S	1,430 m	0,00	87.270,61	0,00	87.270,61	99,5	0,98246	85.739,88	214	85.525,53
SLOP S	2,530 m	TRACES	11.574,19	0,00	11.574,19	98,6	0,98286	11.375,81	28	11.347,37
TOTAL			509.442,91	0,00	509.442,91			500.507,39	1.251	499.256,13

## Summary

Measurements	GROSS		NET		Conversion Factors Based on MPMS 11.5.1	
US BBLs (60°F)	500.507,39		499.256,13		V.E.F.	1,0000
Kilograms (Vac)	69.911.040		69.736.260		Density (@20°C)	0,8754
Metric Tons (Vac)	69.911,040		69.736,260		Density (VAC @ 60/60°F)	0,87943
Kilograms (Air)	69.826.080		69.651.510		BSW (%vol)	0,25
Metric Tons (Air)	69.826,080		69.651,510		Factor / Metric Tons (VAC)	0,139680332
Long Tons (Air)	68.723,280		68.551,470		Factor / Metric Tons (AIR)	0,139510584
US GALLONS (60°F)	21.021.310,40		20.968.757,50		Factor / Long Tons (AIR)	0,137307227
Liters (15°C)	79.539.319		79.340.472		Factor / Liters (15°C)	158,9173713
Free Water (BBLs)	0,00				Factor / US Gallons (60°F)	42
					Gravity A.P.I	29,4

**Note:** Volume Correction Factor used correspond to API Tables 2004 and Unit Conversion Factors Basis on API Chapter 11.5.3

**REMARK :** 4 METERS SWELL DURING TANKS MEASUREMENTS

MEASUREMENTS DEVICE UTI : MODEL: GTEX SERIAL NUMBER: G-25792 CALIBRATION EXPIRE, AUGUST 28th, 2024

Summary of quantities basis on Liters @ 15 °C from Liters @ 20°C using Table 54, other units basis on MPMS 11.5.3

CUSTOMER: CNOOC PETROLEUM BRASIL LTDA / CHINA OFFSHORE OIL (SINGAPORE) INT. PTE LTD				PETROINSPEC REF: PIS009/24			
VESSEL: DPST NS PIONEER				TERMINAL: FPSO P-76 / SANTOS BASIN			
VOYAGE: NS-V24-07				CARGO REF: P76 OC 013			
PRODUCT: BUZIOS CRUDE OIL				DATE: June 02nd to 03rd, 2024			

Voyage	Port	Product	Date	TCV (Departure)	OBQ (Vessel)	TCV (Load - Vessel)	TCV (Shore)	VCF (Table Used)	TCV (Vessel - Shore)	Qualified Voyage?
Last Cargo	FPSO GUANABARA	MERO C.O.	5/3/2024	138.881,300	-	138.881,300	138.881,598		1.00000	Yes
2nd	FPSO P-76 / 75	BUZIOS C.O	8-10/04/2024	140.286,200	-	140.286,200	140.293,825		0.99995	Yes
3rd	FPSO P-77	BUZIOS C.O	5-7/03/2024	138.267,800	-	138.267,800	137.890,390		1.00274	N
4th	FPSO GUANABARA	MERO C.O.	2/23/2024	138.730,200	-	138.730,200	139.491,552		0.99454	N
5th	FPSO P-71	ITAPU C.O.	2/13/2024	130.720,700	-	130.720,700	130.667,000		1.00041	Yes
6th	FPSO P-74 / FPSO ALM. BARROSO	BUZIOS C.O	10-11/01/2024	137.717,750	-	137.717,750	137.716,423		1.00001	Yes
7th	FPSO GUANABARA	MERO C.O.	12/14/2023	132.185,316	-	132.185,316	132.586,346		0.99698	Yes
8th	FPSO P-75 / 76	BUZIOS C.O	29/11-05/12/2024	134.001,700	-	134.001,700	133.760,314		1.00180	Yes
9th	JUBAIL	GASOIL 10PPM	5/7/2023	133.670,471	-	133.670,471	133.757,879		0.99935	Yes
10th										
11th										
12th										
13th										
14th										
15th										
16th										
17th										
18th										
19th										
20th										
					TOTAL	1.224.461,44	1.225.045,327	Volume correction factor table*		
						TCV average ratio	0.99952	**Does Voyage Qualified? (Yes/No)		
					qualifying VEF	0.99652	1.00252			
					current VEF		0.9998			

NOTES  
\* List last voyage first.  
\* Use either barrels or cubic meters: do not mix.

\* The average TCV ratio is equal to total vessel TCV divided by total shore TCV.  
\*This form should be prepared taking information from the report of analysis of voyage on board

REMARK :

VEF WILL BE CONSIDERATE 1.0000

*Report of Analysis*

CLIENT: CNOOC PETROLEUM BRASIL LTDA / CHINA OFFSHORE OIL (SINGAPORE) INT. PTE LTD  
YOUR REF.: P76 OC 013  
VESSEL: DPST NS PIONEER  
VOYAGE: NS-V24-07  
PRODUCT: BUZIOS CRUDE OIL

JOB NUMBER: PIS009/24  
TERMINAL / PORT: FPSO P-76 / SANTOS BASIN  
DATE: June 02nd to 03rd, 2024

THE ANALYSIS BELOW WERE PERFORMED AT FPSO P-76 / SANTOS BASIN LABORATORY.

RESULTS OF FPSO IN-LINE BLEND SAMPLE FROM FPSO P-76 / SANTOS BASIN.

TESTS	UNIT	SPECIFICATION	METHODS	RESULT
DENSITY @15°C	g/cm <sup>3</sup>	Not Informed	ASTM D 5002	0,8754
DENSITY @20°C	g/cm <sup>3</sup>	Not Informed	ASTM D 5002	0,8791
API @60°F	-	Not Informed	ASTM D 5002	29,4
BSW	% vol	Not Informed	ASTM D 4007	0,25
SALINITY	mg/l	Not Informed	ASTM D 3230	84,0

Due to the difficulties and limitations inherent within closed system sampling, as described in API MPMS Chapter 17.11, AmSpec cannot attest to the representative nature of samples drawn with such systems or the test data derived therefrom as contained within this Test Report

## LETTER OF PROTEST

<b>VESSEL:</b>	DPST NS PIONEER	<b>DATE:</b>	June 02nd to 03rd, 2024
<b>TERMINAL / PORT:</b>	FPSO P-76 / SANTOS BASIN	<b>VOYAGE:</b>	NS-V24-07
<b>PRODUCT:</b>	BUZIOS CRUDE OIL	<b>YOUR REF.:</b>	P76 OC 013
<b>JOB NUMBER:</b>	PIS009/24	<b>QUANTITY :</b>	80.000,00 +/- 5% BBLS
<input checked="" type="radio"/> <b>LOADING</b> <input type="radio"/> <b>DISCHARGING</b> <input type="radio"/> <b>BUNKERING</b>	<b>CLIENT:</b> CNOOC PETROLEUM BRASIL LTDA / CHINA OFFSHORE OIL (SINGAPORE) INT. PTE LTD		

To : Master / Chief Officer

Issuance Date : **June 02nd to 03rd, 2024**

To :

Dear Sir,

We have been appointed as surveyors on the above mentioned vessel by our principals CNOOC PETROLEUM BRASIL LTDA / CHINA OFFSHORE OIL (SINGAPORE) INT. PTE LTD . Acting for and on their behalf, we do hereby note protest with you concerning the following situation:

**COMPARISON BETWEEN TOTAL QUANTITY RECEIVED ON VESSEL AND DELIVERED BY FPSO AS PER ASTM 6A TABLE:**

**FPSO'S DELIVERED FIGURES:** 79.633,551 m<sup>3</sup> @20°C° NSV

**VESSEL'S LOADED FIGURES:** 79.855,655 m<sup>3</sup> @20°C° NSV

> **DIFFERENCE:** 222,104 m<sup>3</sup> @20°C or 0,28 % RECEIVED ON VESSEL.

We hereby reserve the right of our principals to refer to this matter at a later date and to take such action as may be deemed necessary.

Yours Faithfully

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

PETROINSPEC REF: PIS009/24

VESSEL: DPST NS PIONEER

VOYAGE: NS-V24-07

PRODUCT: MERO CRUDE OIL

DETAILS: OFFLOADING AT FPSO P-76

SHIP: FPSO P-76 / SANTOS BASIN

CARGO REF: P76 OC 013

DATE: June 02nd to 03rd, 2024

Date	Time	Event
MAY 29th, 2024	15:30	SURVEYOR LAIRTON SILVA DE ALMEIDA ON BOARD IN "DPST NS PIONEER" AT RIO DE JANEIRO
MAY 29th, 2024	17:00	C.O.S.P. / VESSEL DEPARTURE TO FPSO P-76
MAY 30th, 2024	5:30	E.O.S.P. / VESSEL ARRIVED AT FPSO P-76 ZONE 10NM
MAY 30th, 2024	6:00	N.O.R. TENDERED / N.O.R. ACCEPTED
MAY 30th, 2024	10:30	COMMENCE INITIAL TANKS INSPECTIONS
MAY 30th, 2024	11:30	COMPLETED INITIAL TANKS INSPECTIONS / NO OBQ ON BOARD
MAY 30th, 2024	11:30	KEY MEETING COMMENCED
MAY 30th, 2024	11:50	PERMISSION TO ENTER 3NM GRANTED, APPROACHING COMMENCED
MAY 30th, 2024	12:00	KEY MEETING COMPLETED
MAY 30th, 2024	13:30	WEATHER EVALUATION COMMENCED
MAY 30th, 2024	14:00	WEATHER EVALUATION COMPLETED, APPROACHING SUSPENDED DUE TO WEATHER CONDITIONS
MAY 30th, 2024	15:00	VESSEL OUT OFF 3NM ZONE
MAY 30th, 2024	16:40	VESSEL IN 3NM ZONE
MAY 30th, 2024	18:50	CONNECTION OF PULL TUG "AH LIGURIA" COMMENCED
MAY 30th, 2024	19:40	CONNECTION OF PULL TUG "AH LIGURIA" COMPLETED
MAY 30th, 2024	20:20	500m FPSO ZONE
MAY 30th, 2024	20:20	PERMISSION FOR APPROACHING GRANTED
MAY 30th, 2024	20:25	VESSEL AT SHOOTING POSITION, AWAITING FPSO READINESS
MAY 30th, 2024	20:45	COMMENCED MOORING
MAY 30th, 2024	21:45	COMPLETED MOORING
MAY 30th, 2024	23:00	COMMENCE HOSE CONNECTION
MAY 30th, 2024	23:36	COMPLETED HOSE CONNECTION
MAY 30th, 2024	23:36	COMMENCE PRESSURE TEST 5bar
MAY 30th, 2024	23:46	COMPLETED PRESSURE TEST 5bar
MAY 30th, 2024	23:59	COMMENCE LINE FLUSHING
MAY 31st, 2024	0:27	COMPLETED LINE FLUSHING
MAY 31st, 2024	0:30	COMMENCE LINE DISPLACEMENT
MAY 31st, 2024	0:55	COMPLETED LINE DISPLACEMENT
MAY 31st, 2024	1:05	COMMENCE OFFLOAD BUZIOS CRUDE OIL
MAY 31st, 2024	15:22	OFFLOAD STOPPED BY FPSO REQUEST
JUNE 1st, 2024	3:48	RESUMED OFFLOAD
JUNE 1st, 2024	17:45	COMPLETED OFFLOAD BUZIOS CRUDE OIL
JUNE 1st, 2024	17:55	COMMENCED SAMPLING
JUNE 1st, 2024	17:55	COMMENCE BACK FLUSHING
JUNE 1st, 2024	18:35	COMPLETED SAMPLING
JUNE 1st, 2024	19:10	COMPLETED BACK FLUSHING
JUNE 1st, 2024	19:10	COMMENCE FINAL TANK INSPECTION
JUNE 1st, 2024	19:45	COMPLETED FINAL TANK INSPECTION
JUNE 1st, 2024	19:45	COMMENCE CARGO CALCULATIONS
JUNE 1st, 2024	20:05	COMPLETED CARGO CALCULATIONS
JUNE 1st, 2024	20:12	COMMENCE HOSE DISCONNECTION
JUNE 1st, 2024	20:45	COMPLETED HOSE DISCONNECTION
JUNE 1st, 2024	21:12	COMMENCE UNMOORING
JUNE 1st, 2024	21:45	COMPLETED UNMOORING
JUNE 1st, 2024	22:00	500m OFF FPSO ZONE
JUNE 1st, 2024	22:25	AFT TUG "AH LIGURIA" CAST OFF
JUNE 1st, 2024	23:15	VESSEL OUT OFF 3NM ZONE
JUNE 1st, 2024	23:30	DOCUMENTS SIGNED
JUNE 2nd, 2024	6:45	500m FPSO P-76 ZONE / PERMISSION FOR APPROACHING GRANTED
JUNE 2nd, 2024	7:15	VESSEL IN SHOOTING POSITION, AWAITING FPSO READINESS
JUNE 2nd, 2024	7:20	COMMENCED MOORING AT FPSO P-76
JUNE 2nd, 2024	8:45	COMPLETED MOORING AT FPSO P-76
JUNE 2nd, 2024	8:45	COMMENCED HOSE CONNECTION
JUNE 2nd, 2024	10:18	COMPLETED HOSE CONNECTION
JUNE 2nd, 2024	10:54	COMMENCED PRESSURE TEST 5bar
JUNE 2nd, 2024	11:04	COMPLETED PRESSURE TEST 5bar
JUNE 2nd, 2024	14:29	COMMENCE LINE FLUSHING
JUNE 2nd, 2024	15:10	COMPLETED LINE FLUSHING
JUNE 2nd, 2024	15:26	COMMENCED LINE DISPLACEMENT
JUNE 2nd, 2024	15:45	COMPLETED LINE DISPLACEMENT
JUNE 2nd, 2024	16:03	COMMENCED OFFLOADING
JUNE 2nd, 2024	17:20	OFFLOAD SUSPENDED BY FPSO REQUEST ( DUE BLACKOUT )

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

**PETROINSPEC REF: PIS009/24**

**VESSEL:** DPST NS PIONEER  
**VOYAGE:** NS-V24-07  
**PRODUCT:** BUZIOS CRUDE OIL

**TERMINAL** FPSO P-76 / SANTOS BASIN  
**CARGO REF:** P76 OC 013  
**DATE:** June 02nd to 03rd, 2024

Vessel Tanks	Cargo				Free Water		Cargo
Tank Number	Total Corrected Measurement (m)	Liquid/Sludge/Solid (m)	Liquid Measurement (m)	T.O.V. (m³)	Interface Measurement (m)	Free Water Volume (m³)	G.O.V. (m³)
1P	-	-	-				
1S	-	-	-				
2P	-	-	-				
2S	-	-	-				
3P	-	-	-				
3S	-	-	-				
4P	-	-	-				
4S	-	-	-				
5P	-	-	-				
5S	-	-	-				
6P	-	-	-				
6S	-	-	-				
SLOP P	-	-	-				
SLOP S	-	-	-				
						Total G.O.V. (m³)	Nil

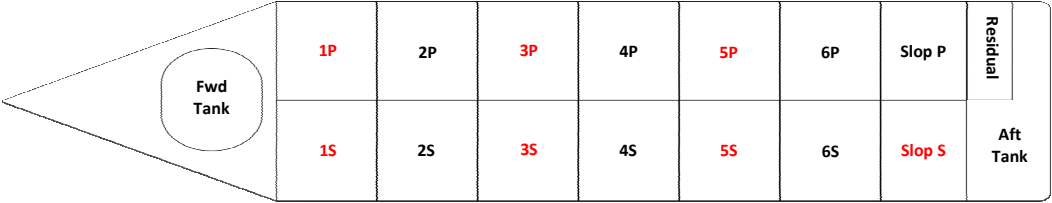
Draft (m)		FWD	AFT
Arrival		12,40	13,40
Arrival Condition	( ) Trim by the Bow		
	( X ) Trim by the Stern		
	( ) Even Keel		
	( ) List by Port		
	( ) List by Starboard		
	( ) No List		
Departure		16,60	16,60
Departure Condition	( ) Trim by the Bow		
	( ) Trim by the Stern		
	( x ) Even Keel		
	( ) List by Port		
	( ) List by Starboard		
	( ) No List		

Sea Valves Seal Numbers

Sea Valves Port	405433
Sea Valves Starboard	-
Oil/Water Separator	420745
Cargo Tanks Used as Ballast	(    ) Yes (    X    ) No
Segregated Ballast Tanks	(    X    ) Yes (       ) No

Innages Taken at Assigned Gauge Points	(    X    ) Yes (       ) No
Location	(       ) Fore (       ) Center (    x    ) Aft

Additional Oil Found in Red	(       ) Yes (    X    ) No
-----------------------------	------------------------------



Top Lines Stripped	(    X    ) Yes (       ) No
Bottom Lines Stripped	(    X    ) Yes (       ) No
Hose/Arm Stripped	(    X    ) Yes (       ) No

Bunkers (m)	Fuel Oil	Diesel
Departure from Port (Mt Vac)		
Arrival at FPSO (Mt Vac)	1.374,25	276,80
Departure from FPSO (Mt Vac)	1.336,53	262,28
Arrival at Port (Mt Vac)		

Comments:

ALL TANKS EMPTY - TK'S (1W/3W/5W/SLOP S).

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

**PETROINSPEC REF:** PIS009/24

**VESSEL:** DPST NS PIONEER

**TERMINAL:** FPSO P-76 / SANTOS BASIN

**VOYAGE:** NS-V24-06

**CARGO REF:** P76 OC 013

**PRODUCT:** MERO CRUDE OIL

**DATE:** June 02nd to 03rd, 2024

As per the Master/Chief Officer of the aforementioned vessel, the cargo tanks on deck below are pressurized with gas, preventing physical entry. Consequently, our assessment was confined to a visual inspection. The onboard tanks were examined visually, adhering to the criteria of cleanliness, dryness, and absence of odors.

Informed method that have been used to clean the tanks:

The tanks on the ship were inspected using sounding, as visual checks were impracticable due to the presence of inert gas inside

Tank Number	Date	Time	Last Cargo	2nd Last Cargo	3rd Last Cargo	Cap. of the Tanks	Type of Coating
1P	05/30/24	11:30	MERO C.O.	BUZIOS C.O.	BUZIOS C.O.	11959,039	EPOXY
1S	05/30/24	11:30	MERO C.O.	BUZIOS C.O.	BUZIOS C.O.	11953,242	EPOXY
2P	05/30/24	11:30	MERO C.O.	BUZIOS C.O.	BUZIOS C.O.	13971,694	EPOXY
2S	05/30/24	11:30	MERO C.O.	BUZIOS C.O.	BUZIOS C.O.	13970,578	EPOXY
3P	05/30/24	11:30	MERO C.O.	BUZIOS C.O.	BUZIOS C.O.	13956,171	EPOXY
3S	05/30/24	11:30	MERO C.O.	BUZIOS C.O.	BUZIOS C.O.	13973,525	EPOXY
4P	05/30/24	11:30	MERO C.O.	BUZIOS C.O.	BUZIOS C.O.	13953,990	EPOXY
4S	05/30/24	11:30	MERO C.O.	BUZIOS C.O.	BUZIOS C.O.	13971,311	EPOXY
5P	05/30/24	11:30	MERO C.O.	BUZIOS C.O.	BUZIOS C.O.	13957,014	EPOXY
5S	05/30/24	11:30	MERO C.O.	BUZIOS C.O.	BUZIOS C.O.	13972,001	EPOXY
6P	05/30/24	11:30	MERO C.O.	BUZIOS C.O.	BUZIOS C.O.	13353,537	EPOXY
6S	05/30/24	11:30	MERO C.O.	BUZIOS C.O.	BUZIOS C.O.	13366,404	EPOXY
SLOP P	05/30/24	11:30	OILY WATER	OILY WATER	OILY WATER	2414,081	EPOXY
SLOP S	05/30/24	11:30	MERO C.O.	BUZIOS C.O.	BUZIOS C.O.	1957,408	EPOXY
					TOTAL	166.729,995	

Information regarding previous cargoes, tank coating, and cleaning methods was obtained from vessel personnel and cannot be guaranteed as accurate. Petroinspec assumes no liability for any consequences resulting from inaccurate information supplied by the vessel. This report necessarily relies on such information.

The tank cleaning inspections are based on visual assessments of accessible surfaces and system time. However, this document does not encompass the evaluation of tank surfaces' cleanliness, specific spots, or the potential release of components from previous cargoes during loading, discharging, or transport of the current cargo. The vessel holds full responsibility for these aspects. The assurance of the suitability of tank coating for the intended cargo must be guaranteed by the vessel's owner or the coating suppliers.

Due to the difficulties and limitations inherent within closed system sampling, as described in API MPMS Chapter 17.11, Petroinspec can not attest to the representative nature of samples drawn with such systems or the test data derived therefrom as contained within this Test Report.



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

YOUR REF.: P76 OC 013  
VESSEL: DPST NS PIONEER  
VOYAGE: NS-V24-07  
PRODUCT: BUZIOS CRUDE OIL

JOB NUMBER: PIS009/24  
TERMINAL / PORT: FPSO P-76 / SANTOS BASIN  
DATE: June 02nd to 03rd, 2024

1. VESSEL HISTORY FROM CHIEF ENGINEER								
BUNKER PRODUCT		HEAVY FUEL OIL		DAYS AT SEA		N/I	AT ANCH	N/I
LAST PORT		ANGRA DOS REIS		AVERAGE BUNKER CONSUMPTION PER DAY				
BUNKERS ON DEPARTURE	N/I		METRIC TONS	AT SEA	N/I		METRIC TONS	
BUNKERS AT E.O.S.P.	N/I		METRIC TONS	AT LOAD	N/I		METRIC TONS	
BUNKERS RECEIVED INTRANSIT	N/I		METRIC TONS	AT DISC	N/I		METRIC TONS	
BUNKERS RECEIVED IN PORT	N/I		METRIC TONS	AT ANCHOR	N/I		METRIC TONS	
2. INSPECTION UPON ARRIVAL								
DATE	02-Jun-2024	TIME	08:45	DRAFTS	FWD	6,50 m	AFT	9,50 m
TANK NAME	INNAGES	G.O.V.	TEMP.	V.C.F.	G.S.V.	DENSITY	M. TONS	
	m	m3	°C	T54B - 2004	m3	15°C	(AIR)	
1P	1,85	1078,500	30,0	0,98858	1066,184	0,9113	970,440	
1S	16,47	35,100	32,0	0,98735	34,656	0,9276	32,109	
2S	1,42	173,300	52,0	0,97170	168,396	0,9113	153,274	
G1 Service	5,93	93,300	86,0	0,94660	88,318	0,9276	81,826	
G1 Settling	6,72	78,200	68,0	0,96027	75,093	0,9276	69,574	
G2 Service	10,33	24,400	68,0	0,96031	23,432	0,9283	21,726	
G2 Settling	12,06	0,000	47,0	0,97613	0,000	0,9283	0,000	
G3 Service	9,10	41,300	77,0	0,95349	39,379	0,9283	36,512	
G3 Settling	10,81	3,200	58,0	0,96786	3,097	0,9283	2,872	
OVFL, snd	0,68	6,500	40,0	0,98138	6,379	0,9283	5,915	
TOTALS	G.O.V. =	1533,800		G.S.V. =	1504,933	M. TONS =	1374,248	
3. INSPECTION PRIOR TO SAILING								
DATE	03-Jun-2024	TIME		DRAFTS	FWD	16,60	AFT	16,60
TANK NAME	INNAGES	G.O.V.	TEMP.	V.C.F.	G.S.V.	DENSITY	M. TONS	
	m	m3	°C	T54B - 2004	m3	15°C	(AIR)	
1P	1,85	1078,500	30,0	0,98858	1066,184	0,9113	970,440	
1S	16,29	46,200	32,0	0,98735	45,616	0,9276	42,263	
2S	1,42	173,300	52,0	0,97170	168,396	0,9113	153,274	
G1 Service	5,93	93,300	86,0	0,94660	88,318	0,9276	81,826	
G1 Settling	6,72	78,200	68,0	0,96027	75,093	0,9276	69,574	
G2 Service	10,33	24,400	68,0	0,96031	23,432	0,9283	21,726	
G2 Settling	12,06	0,000	47,0	0,97613	0,000	0,9283	0,000	
G3 Service	9,10	41,300	77,0	0,95349	39,379	0,9283	36,512	
G3 Settling	10,81	3,200	58,0	0,96786	3,097	0,9283	2,872	
OVFL, snd	0,68	6,500	40,0	0,98138	6,379	0,9283	5,915	
TOTALS	G.O.V. =	1544,900		G.S.V. =	1515,892	M. TONS =	1384,402	
4. ADDITIONAL INFORMATION AND COMMENTS								
QUANTITY CONSUMED DURING VOYAGE				METRIC TONS	BUNKER SURVEY WAS			
QUANTITY CONSUMED DURING TRANSFER			-10,154	METRIC TONS	SUBMITTED BY VESSEL			

Bunker Report

CLIENT:	CNOOC PETROLEUM BRASIL LTDA / CHINA OFFSHORE OIL (SINGAPORE) INT. PTE LTD			JOB NUMBER:	PIS009/24
YOUR REF.:	P76 OC 013			TERMINAL / PORT:	FP50 P-76 / SANTOS BASIN
VESSEL:	DPST NS PIONEER			DATE:	June 02nd to 03rd, 2024
VOYAGE:	NS-V24-07				
PRODUCT:	BUZIOS CRUDE OIL				

1. VESSEL HISTORY FROM CHIEF ENGINEER							
BUNKER PRODUCT	MARINE GAS OIL	DAYS AT SEA	N/I	AT ANCH	N/I		
LAST PORT	ANGRA DOS REIS	AVERAGE BUNKER CONSUMPTION PER DAY					
BUNKERS ON DEPARTURE	N/I	METRIC TONS	AT SEA	N/I	METRIC TONS		
BUNKERS AT E.O.S.P.	N/I	METRIC TONS	AT LOAD	N/I	METRIC TONS		
BUNKERS RECEIVED INTRANSIT	N/I	METRIC TONS	AT DISC	N/I	METRIC TONS		
BUNKERS RECEIVED IN PORT	N/I	METRIC TONS	AT ANCHOR	N/I	METRIC TONS		

2. INSPECTION UPON ARRIVAL									
DATE	02-Jun-2024	TIME	11:40	DRAFTS		FWD	6,50 m	AFT	9,50 m
TANK NAME	INNAGES	G.O.V.	TEMP.	V.C.F.	G.S.V.	DENSITY	M. TONS		
	m	m3	°C	T54B - 2004	m3	15°C	(AIR)		
MGO Storage	6,96	217,000	30,0	0,98733	214,251	0,8420	180,163		
G1 MGO Service	2,84	47,300	30,0	0,98733	46,701	0,8420	39,271		
G2 MGO Service	2,33	37,100	30,0	0,98733	36,630	0,8420	30,802		
G3 MGO Service	2,17	32,000	30,0	0,98733	31,595	0,8420	26,568		
TOTALS	G.O.V. =	333,400		G.S.V. =	329,176	M. TONS =	276,804		

3. INSPECTION PRIOR TO SAILING							
DATE : 03-Jun-2024	TIME	21:12	DRAFTS	FWD	16,60 m	AFT	16,60 m
TANK NAME	INNAGES	G.O.V.	TEMP.	V.C.F.	G.S.V.	DENSITY	M. TONS
	m	m3	°C	T54B - 2004	m3	15°C	(AIR)
MGO Storage	6,98	218,500	30,0	0,98733	215,732	0,8420	181,409
G1 MGO Service	1,78	28,300	30,0	0,98733	27,941	0,8420	23,496
G2 MGO Service	2,33	37,100	30,0	0,98733	36,630	0,8420	30,802
G3 MGO Service	2,17	32,000	30,0	0,98733	31,595	0,8420	26,568
TOTALS	G.O.V. =	315,900		G.S.V. =	311,898	M. TONS =	262,275

4. ADDITIONAL INFORMATION AND COMMENTS			
QUANTITY CONSUMED DURING VOYAGE		METRIC TONS	BUNKER SURVEY WAS
QUANTITY CONSUMED DURING TRANSFER	14,529	METRIC TONS	SUBMITTED BY VESSEL

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

**PETROINSPEC REF: PIS009/24**

**VOYAGE:** DPST NS PIONEER

**TERMINAL:** FPSO P-76 / SANTOS BASIN

**PRODUCT:** NS-V24-07

**CARGO REF: P76 OC 013**

**PRODUCT:** BUZIOS CRUDE OIL

**DATE:** June 02nd to 03rd, 2024

[illegible]

*Owing to the challenges and constraints inherent in closed system sampling, as elucidated in API MPMS Chapter 17.11, it is important to note that PetroInspec cannot guarantee the representative nature of samples collected using such systems or vouch for the accuracy of the test data presented in this Test Report.*

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## SLOPS RECORD REPORT - BEFORE LOADING

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

**YOUR REF.: P76 OC 013**

**VESSEL:** DPST NS PIONEER

**VOYAGE:** NS-V24-07

**PRODUCT: BUZIOS CRUDE OIL**

**JOB NUMBER:** PIS009/24

**TERMINAL / PORT:** FPSO P-76 / SANTOS BASIN

**DATE:** June 02nd to 03rd, 2024

[illegible]

VESSEL DRAFT				SEA VALVES SEALS NUMBER			
FORE DRAFT:		6,50		SEA VALVES PORT:		405433	
AFTER DRAFT:		9,50		SEA VALVES STB:		-	
LIST DEGREES:				OVERBOARD:		405431 - 405432	
				SEACHEST:		420748	
				OIL/WATER SEPARATOR:		420745	
CARGO TANKS USED AS BALLAST :		NOT					
SEGREGATED BALLAST TANKS:		YES		1to 6 P/S WBT fore and after peak segregated			
INNAGES TAKEN AT DESIGNATES GAUGE POINTS :		YES		LOCATED		AFT	
ADDITIONAL OIL FOUND:		INFORM TANK N°:		TAKEN SAMPLES:		NOT	
TOP LINES STRIPPED:		YES		BUNKER SURVEY:		FUEL OIL      DIESEL OIL	
BOTTOM LINES STRIPPED:		YES		MT-VAC (BEFORE):		-                      -	
HOSE/ARM STRIPPED:		NOT		MT-VAC (AFTER):		-                      -	

REMARKS:

### Slops Record Report - After Loading

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

**YOUR REF.: P76 OC 013**

VESSEL: DPST NS PIONEER

**VOYAGE: NS-V24-07****PRODUCT: BUZIOS CRUDE OIL**

**JOB NUMBER:** PIS009/24

**TERMINAL / PORT: FPSO P-76 / SANTOS BASIN**

**DATE:** June 02nd to 03rd, 2024

[illegible]

VESSEL DRAFT		SEA VALVES SEALS NUMBER	
FORE DRAFT:	16,60	SEA VALVES PORT	405433
AFTER DRAFT:	16,60	SEA VALVES STB	-
LIST DEGREES:	-	OVERBOARD:	405431 - 405432
		SEACHEST	420748
		OIL/WATER SEPARATOR:	420745

<b>CARGO TANKS USED AS BALLAST :</b>	<b>NOT</b>		
<b>SEGREGATED BALLAST TANKS :</b>	<b>YES</b>	<i>1to 6 P/S WBT fore and after peak segregated</i>	

INNAGES TAKEN AT DESIGNATES GAUGE POINTS :		YES		LOCATED	AFT	
ADDITIONAL OIL FOUND:	NOT	INFORM TANK N°:	N/A	TAKEN SAMPLES:		

TOP LINES STRIPPED:	YES		BUNKER SURVEY:	FUEL OIL	DIESEL OIL
BOTTOM LINES STRIPPED:	YES		MT-VAC (BEFORE):	-	-
HOSE/ARM STRIPPED:	NOT		MT-VAC (AFTER):	-	-

REMARKS:

H2S Report - Before Operation

CLIENT:

YOUR REF.:

VESSEL:

VOYAGE:

PRODUCT:

CNOOC PETROLEUM BRASIL LTDA / CHINA OFFSHORE OIL (SINGAPORE) INT. PTE LTD  
P76 OC 013  
DPST NS PIONEER  
NS-V24-07  
BUZIOS CRUDE OIL

JOB NUMBER: PIS009/24

TERMINAL / PORT: FPSO P-76 / SANTOS BASIN

DATE: June 02nd to 03rd, 2024

TANK	UNIT	METHODS	RESULT BEFORE	RESULT AFTER
1P	ppm	Not Informed	0,0	10,0
1S	ppm	Not Informed	0,0	10,0
2P	ppm	Not Informed	0,0	0,0
2S	ppm	Not Informed	0,0	0,0
3P	ppm	Not Informed	0,0	9,0
3S	ppm	Not Informed	0,0	9,0
4P	ppm	Not Informed	0,0	0,0
4S	ppm	Not Informed	0,0	0,0
5P	ppm	Not Informed	0,0	8,0
5S	ppm	Not Informed	0,0	10,0
6P	ppm	Not Informed	0,0	0,0
6S	ppm	Not Informed	0,0	0,0
SLOP P	ppm	Not Informed	0,0	0,0
SLOP S	ppm	Not Informed	0,0	10,0

REMARK.:

The H2S measurements was done by the Vessel staff and accompanied by the PetroInspec Surveyor.