



## **CERTIFICATE OF QUANTITY**

ISSUED BY INDEPENDENT SURVEYOR AT LOAD PORT

LOADING VESSEL : M/T ROSTELLA  
PRODUCT DESCRIPTION : COMMODITY : ASPHALT 60/70  
MANUFACTURER: GS CALTEX CORPORATION  
ORIGIN: SOUTH KOREA  
PACKING: IN BULK  
LOAD PORT : YOSU, SOUTH KOREA  
DISCHARGE PORT : TANJUNG MANIS INTEGRATED PORT OGC JETTY, MALAYSIA  
BILL OF LADING DATE : 11TH NOVEMBER 2023  
REPORT NO. : Y23-20024262  
DATE OF INSPECTION : 11TH NOVEMBER 2023

THIS IS TO CERTIFY THAT the following quantity of Commodity : Asphalt 60/70 was loaded on board the M/T ROSTELLA at Yosu, South Korea on 11th November 2023 are correct based on loadport shore tank gauges measurements and calculations at the loading port.

UNIT	GROSS	NET
CBM AT 15 DEG C	6,560.496	6,560.496
US BBLs AT 60 DEG F	41,279	41,279
LONG TONS	6,740.337	6,740.337
METRIC TONS	6,848.502	6,848.502

Yosu, South Korea 11th November 2023  
SGS Korea Co., Ltd.

  
Alan Kim / Inspector  
Natural Resources  
Oil, Gas & Chemical Commodities



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The followings are the results of analysis performed by supplier's laboratory on the sample of shore tank(s) before loading.

Test Items	Test Method	Spec	Test Results
			520D122
DENSITY @15°C, KG/L	ASTM D70	Min 1.00	1.045
SOFTENING POINT R AND B DEG C, °C	ASTM D36	Min 47	47.6
PENETRATION @ 25°C	ASTM D5	60-70	69
DUCTILITY @ 25°C, CM	ASTM D113	Min 140	140+
DUCTILITY @ 15°C, CM	ASTM D113	Min 140	140+
FLASH POINT CLEVELAND O.C., °C	ASTM D92	Min 275	338
SOLUBILITY IN TRICHLOROETHANE, MASS %	ASTM D2042	Min 99	99.90
DUCTILITY OF RESIDUE @ 15°C (TFOT), CM	ASTM D113	REPORT	90
LOSS OF HEATING (TFOT), MASS %	ASTM D6	Max 0.6	0.01
PENETRATION OF RESIDUE (TFOT)	ASTM D5	Min 55	69.6
WAX CONTENT, WT %	DIN 52015	Max 2.2	1.6
VISCOSITY @ 120°C, CST	ASTM D4402	Report	968.4

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The results shown in this test report specifically refer to the sample(s) tested as received unless otherwise stated. All tests have been performed using the latest revision of the methods indicated, unless specifically marked otherwise on the report. Precision parameters apply in the determination of the above results. Users of the data shown on this report should refer to the latest published revisions of ASTM D3244; IP 367 and ISO 4269 and when utilizing the test data to determine conformance with any specification or process requirement. With respect to the UOP methods listed in the report below the user is referred to the method and the statement within it specifying that the precision statements were determined using UOP Method 999. This Test Report is issued under the Company's General Conditions of Service (copy available upon request or on the company website at [www.sgs.com](http://www.sgs.com)). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. This report shall not be reproduced except in full, without the written approval of the laboratory.

## ULLAGE REPORT

ISSUED BY INDEPENDENT SURVEYOR AT LOAD PORT

LOADING VESSEL	:	M/T ROSTELLA
PRODUCT DESCRIPTION	:	COMMODITY : ASPHALT 60/70 MANUFACTURER: GS CALTEX CORPORATION ORIGIN: SOUTH KOREA PACKING: IN BULK
LOAD PORT	:	YOSU, SOUTH KOREA
DISCHARGE PORT	:	TANJUNG MANIS INTEGRATED PORT OGC JETTY, MALAYSIA
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### AFTER LOADING

● Draft : Fwd.= 6.50M    Aft.= 7.60M    Trim= 1.10M    List = Nil

AFTER LOADING										
Tank No.	Ullage (M)	Corr'd Ullage (M)	Total Obs'd Volume (K/L)	Free Water		Temp. (°C)	Tank Shell Temp. Correction	Gross Obs'd Volume (K/L)	VCF ASTM-D4311	Gross St'd Volume (K/L)
				Innage (M)	Vol. (K/L)					
1P	2.500	2.432	923.065	N/A	0.000	169.6	N/A	923.065	0.9063	836.574
1S	2.500	2.432	923.939	N/A	0.000	169.3	N/A	923.939	0.9063	837.366
2P	2.450	2.510	978.719	N/A	0.000	170.6	N/A	978.719	0.9057	886.426
2S	2.450	2.510	977.722	N/A	0.000	170.9	N/A	977.722	0.9054	885.229
3P	2.620	2.564	934.019	N/A	0.000	170.4	N/A	934.019	0.9057	845.941
3S	2.620	2.564	934.321	N/A	0.000	170.4	N/A	934.321	0.9057	846.215
4P	2.900	2.952	789.840	N/A	0.000	171.8	N/A	789.840	0.9048	714.647
4S	2.890	2.942	787.586	N/A	0.000	172.0	N/A	787.586	0.9048	712.608
TOTAL			7,249.211		0.000	170.6		7,249.211		6,565.006

Density @ 15C : 1.0450 In Vacuum  
Density (kg/L) : 1.0439 In Air  
Sea Condition : Slight Sea  
Gauging Equip't : Sounding Tape  
Used Table on ASTM D 4311-04 / T-56 / T-52 / T-1

**Total Loaded Onboard Quantity**

6,565.006	CBM AT 15 DEG C
41,307	US BBLs AT 60 DEG F
6,744.970	LONG TONS
6,853.210	METRIC TONS

Yosu, South Korea 11th November 2023  
SGS Korea Co., Ltd.

Signed by Master/Chief Officer  
of M/T ROSTELLA

for Wage & Temp

**Alan Kim / Inspector  
Natural Resources  
Oil, Gas & Chemical Commodities**

## TIME SHEET

ISSUED BY INDEPENDENT SURVEYOR AT LOAD PORT

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 DISCHARGE PORT : TANJUNG MANIS INTEGRATED PORT OGC JETTY, MALAYSIA  
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DATE	TIME	PARTICULARS
09-Nov-2023	0530 hrs	* Vessel arrived at Yosu, Korea
09-Nov-2023	0530 hrs	* Notice of Readiness Tendered
09-Nov-2023	0645 hrs	* Drop anchor
10-Nov-2023	1306 hrs	* Pilot on board
10-Nov-2023	1318 hrs	* Anchor aweigh
10-Nov-2023	1442 hrs	* First line ashore
10-Nov-2023	1506 hrs	* All made her fast to GSC No. 2 berth
10-Nov-2023	1506 hrs	* Notice of Readiness Accepted
10-Nov-2023	1510 hrs	Surveyor on board
10-Nov-2023	1510-1540 hrs	Tank Inspection
10-Nov-2023	1550 hrs	Surveyor left her
10-Nov-2023	1615 hrs	Connected 8" x 1 Loading arm
10-Nov-2023	1625 hrs	Commenced loading
11-Nov-2023	0630 hrs	Surveyor on board
11-Nov-2023	0655 hrs	Completed loading
11-Nov-2023	0705 hrs	Disconnected Loading Arm
11-Nov-2023	0710-0850 hrs	Sampling, Gauging & Calculation
11-Nov-2023	0900 hrs	Finished Documentation
11-Nov-2023	0910 hrs	Surveyor left her
11-Nov-2023	0930 hrs	* Vessel left berth

Remark :

Yosu, South Korea 11th November 2023  
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Times marked \*are reported as per statement of facts issued by the installation and/or ship without any responsibility on our part for their accuracy.

## CERTIFICATE OF SHIP TANK'S CLEANLINESS

ISSUED BY INDEPENDENT SURVEYOR AT LOAD PORT

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### ● NOMINATED CARGO TANKS

Vessel Tanks	Last Cargo	2nd Last Cargo	3rd Last Cargo	Tank Coating	Cleaning Type
1P/S	Asphalt	Asphalt	Asphalt	Mild Steel	A
2P/S	Asphalt	Asphalt	Asphalt	Mild Steel	A
3P/S	Asphalt	Asphalt	Asphalt	Mild Steel	A
4P/S	Asphalt	Asphalt	Asphalt	Mild Steel	A

The cleaning work for the cargo tank(s) of the vessel was completely performed prior to our attendance.

### ● Cleaning Method : A

1. As per Chief Officer, All cargo tanks were well stripped during last discharge.

### ● NOT GAS FREE CONDITION THEREFORE UNSAFE FOR ENTRY.

All designated tanks, numbered : 1P/S ~ 4P/S

were not gas free and therefore no tank entry inspection could be made.

The tanks were inspected by visual method only on the deck level via tank hatches and by the manual sounding for the residue on the tank bottoms.

The intended cargo was same type of the previous cargo and all appropriate parties were agreed that the quantity and nature of the OBQ were sufficient to load intended cargo.

All ship's lines and pumps were said to be clean by Chief officer.

Inspection time : 1510 - 1540hrs 10th November '2023

Yosu, South Korea 11th November 2023  
 SGS Korea Co., Ltd.

Signed by Master/Chief Officer  
 M/T ROSTELLA



Alan Kim / Inspector  
 Natural Resources  
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## SAMPLE REPORT

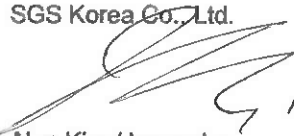
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LOAD PORT	: YOSU, SOUTH KOREA
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Kindly note that we, undersigned surveyor, has drawn following samples

<u>Sample Source</u>	<u>Type</u>	<u>Size(cc)</u>	<u>Q'ty</u>	<u>Seal No.</u>	<u>Distribution</u>
<b><u>1) Sample ex shore tank before loading</u></b>					
Shore tank No.: 520D-122	Composite	4,000	1	0839411	For Receiver
Shore tank No.: 520D-122	Composite	4,000	1	0839412	For Master
Shore tank No.: 520D-122	Composite	4,000	1	0839413	Retained by SGS
<b><u>2) Sample ex Ship tank after loading</u></b>					
Ship's tank No. : 1P/S~4P/S	Composite	4,000	1	0839414	For Receiver
Ship's tank No. : 1P/S~4P/S	Composite	4,000	1	0839415	For Master
Ship's tank No. : 1P/S~4P/S	Composite	4,000	1	0839416	Retained by SGS

Yosu, South Korea 11th November 2023  
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The above samples will be retained only 3 months unless written instructions to be contrary are received.

## MASTER RECEIPT OF DOCUMENTS

ISSUED BY INDEPENDENT SURVEYOR AT LOAD PORT

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I hereby acquired the following documents from the surveyor at Yosu, South Korea dated on 11th November 2023

Certificate	For Consignee	For Master
CERTIFICATE OF QUANTITY	1 Copy	1 Copy
CERTIFICATE OF QUALITY	1 Copy	1 Copy
ULLAGE REPORT	1 Copy	1 Copy
TIME SHEET	1 Copy	1 Copy
CERTIFICATE OF SHIP TANK'S CLEANLINESS	1 Copy	1 Copy
SAMPLE REPORT	1 Copy	1 Copy
MASTER RECEIPT OF SAMPLES	1 Copy	1 Copy
MASTER RECEIPT OF DOCUMENTS	1 Copy	1 Copy
SHORE TANK MEASUREMENT REPORT	1 Copy	1 Copy
VESSEL'S EXPERIENCE FACTOR	1 Copy	1 Copy

Yosu, South Korea 11th November 2023

SGS Korea Co., Ltd.



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 Oil, Gas & Chemical Commodities

Master of M/T ROSTELLA



## MASTER RECEIPT OF SAMPLES

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The following samples for Consignee was duly received by the Master of the vessel dated on 11th November 2023

Size of Sample	Seal Number		Sample Type
	For receiver	For Master	
4 Litres X 2 Cans	0839411	0839412	Composite sample ex Shore tank No. 520D-122 before loading.
4 Litres X 2 Cans	0839414	0839415	Composite sample ex Ship's tank No. 1P/S~4P/S after loading.

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 SGS Korea Co., Ltd.

Master of M/T ROSTELLA



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## SHORE TANK MEASUREMENT REPORT

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### SHORE TANK'S SOUNDING BEFORE AND AFTER LOADING

Shore tank No.: 520D-122

Term	Innage (M)	T.O.V. (K/L)	Water		Tank Shell Corr.	G.O.V. (K/L)	Temp. (°C)	Density at 15°C	V.C.F. ASTM D4311	G.S.V. (KL.)
			(M)	(K/L)						
OP	16.193	13,336.949	N/A	0.000	N/A	13,336.949	175.1	1.0450	0.9031	12,044.599
CL	7.388	6,068.499	N/A	0.000	N/A	6,068.499	173.8	1.0450	0.9037	5,484.103

Delivered quantity : 6,560.496 KL at 15 °C

### Total Delivered Quantity

Unit	520D-122	TOTAL
CBM AT 15 DEG C	6,560.496	6,560.496
US BBLs AT 60 DEG F	41,279	41,279
LONG TONS	6,740.337	6,740.337
METRIC TONS	6,848.502	6,848.502

Shore line is fully packed before and after loading by Line pack Method

Yosu, South Korea 11th November 2023

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## VESSEL'S EXPERIENCE FACTOR

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The below data were based on declared and consulted and consulted with Chief Officer.

Voyage No.	Cargo	Date	M/TONS		Diff. Ship-BL	VLR Ship/BL	Port	*
			Ship	B/L				
2310	Asphalt	09/10/2023	3,708.800	3,701.127	7.673	1.00207	TG LANGSAT	
2309	Asphalt	07/10/2023	7,085.600	7,081.169	4.431	1.00063	SINGAPORE	
2308	Asphalt	02/08/2023	7,092.000	7,085.847	6.153	1.00087	NINGBO	
2307	Asphalt	07/07/2023	6,803.200	6,790.665	12.535	1.00185	RAYONG	
2306	Asphalt	31/05/2023	7,089.700	7,084.680	5.020	1.00071	SINGAPORE	
2305	Asphalt	23/04/2023	6,757.000	6,751.520	5.480	1.00081	NINGBO	
2304	Asphalt	12/04/2023	6,816.400	6,811.800	4.600	1.00068	YEOSU	
2303	Asphalt	04/03/2023	6,984.100	6,976.760	7.340	1.00105	NINGBO	
2302	Asphalt	24/02/2023	6,848.200	6,842.948	5.252	1.00077	YEOSU	
2301	Asphalt	14/02/2023	6,815.500	6,806.695	8.805	1.00129	YEOSU	
2206	Asphalt	05/01/2023	6,815.300	6,811.460	3.840	1.00056	RAYONG	
2205	Asphalt	16/11/2022	6,807.500	6,805.869	1.631	1.00024	NINGBO	
2204	Asphalt	08/11/2022	6,850.300	6,851.746	-1.446	0.99979	YEOSU	
2203	Asphalt	16/09/2022	6,816.000	6,810.282	5.718	1.00084	RAYONG	
2202	Asphalt	05/08/2022	6,705.500	6,699.251	6.249	1.00093	NINGBO	
2201	Asphalt	12/06/2022	7,139.000	7,147.371	-8.371	0.99883	YEOSU	
19	Asphalt	28/03/2022	6,504.100	6,500.767	3.333	1.00051	YEOSU	
18	Asphalt	12/03/2022	6,515.600	6,512.703	2.897	1.00044	RAYONG	
17	Asphalt	20/02/2022	7,011.700	7,003.415	8.285	1.00118	SINGAPORE	
16	Asphalt	08/02/2022	7,037.300	7,041.372	-4.072	0.99942	SINGAPORE	
Total			134,202.800	134,117.447	85.353	1.00064	Average VLR	
Qualifying total			134,202.800	134,117.447	85.353	1.0006	V.E.F.	
Present voyage			6,853.210	6,848.502	4.708	1.00069	0.069%	

(\*) Non-qualifying voyage:

- a) First voyage after drydock
- b) Voyage prior to structural modifications
- c) Part cargo
- d) No shore measurement available
- e) Not enough data available
- f) Not used at clients request
- g) Out of average ratio range +/- 0.3%
- h) Ship to Ship

B/L Figure : 6,848.502  
 Ship Loaded Present Voyage : 6,853.210  
 V.E.F. : 1.0006  
 Theoretical Ship's Figure : 6,849.101  
 Difference : 0.599  
 Pct : 0.009%

Note: API MPMS Chapter 17.9 / EI HM 49 - 3rd edition

Signed by Master/Chief Officer  
 M/T ROSTELLA  
 IMO NO. 9803247  
 ROSTELLA SHIPPING PTE LTD

Yosu, South Korea 11th November 2023  
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