



CERTIFICATE OF QUANTITY

SHIPPER : S-OIL CORPORATION
COMMODITY : ARAMCO DURA 150BS
DESTINATION : TIANJIN, CHINA
LOADING PORT : ONSAN, SOUTH KOREA
VESSEL NAME : M/T GIANT SAMBU
SOIL REF. NO. : 386932285
REPORT NO. : U23-20023484

THIS IS TO CERTIFY THAT the following quantity of ARAMCO DURA 150BS
was loaded onboard the M/T GIANT SAMBU at Onsan, South Korea on 10th Oct. 2023

KL at 60 °F	1,075.649
BBLS at 60 °F	6,765.77
KL at 15 °C	1,075.216
LT	942.23
MT	957.353

- Nominated cargo tank(s) by stowage plan : 5P/S
- Actual loaded cargo tank(s) : 5P/S

Onsan, South Korea 10th Oct. 2023
SGS Korea Co., Ltd.

Oliver Park / 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	Limit	Test Results	
			TK-53133	TK-53128
APPEARANCE (ROOM TEMP)	Visual	B & C	B & C	B & C
DENSITY@15°C(G/CM3)	ASTM D 4052	Report	0.8911	0.8917
VISCOSITY INDEX	ASTM D 2270	Min 94	95	96
VISCOSITY (cSt,40 °C)	ASTM D 445	Report	484.9	495.0
VISCOSITY (cSt,100 °C)	ASTM D 445	30.7-32.8	31.53	31.99
COLOR, ASTM	ASTM D 1500	Max 5.0	L1.5	L1.5
FLASH POINT (COC, °C)	ASTM D 92	Min 288	308	314
POUR POINT (°C)	ASTM D 6749	Max -10.0	-13	-13
RESIDUE CARBON(WT%)	ASTM D 4530	Max 0.7	0.10	0.07
COPPER CORROSION (100 °C X 3h)	ASTM D 130	Max 1	1b	1b
TOTAL ACID NO. (mg KOH/g)	ASTM D 974	Max 0.05	0.01	0.01

Onsan, South Korea 10th Oct. 2023
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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 analytical results, when establishing conformance with commercial or regulatory requirements should note the full provisions of ASTM D3244, IP 367 and ISO 4259 in that context; the default confidence level of petroleum testing having been set at the 95% confidence level. Your attention is specifically drawn to Sections 7.3.6., 7.3.7 and 7.3.8 of ASTM D3244. With respect to the UOP methods listed in the report above 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). 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.



CERT OF ANALYSIS

SHIPPER : S-OIL CORPORATION
COMMODITY : ARAMCO DURA 150BS
DESTINATION : TIANJIN, CHINA
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VISCOSITY INDEX	ASTM D 2270	Min 94	95	96
VISCOSITY (cSt,40 °C)	ASTM D 445	Report	484.9	495.0
VISCOSITY (cSt,100 °C)	ASTM D 445	30.7-32.8	31.53	31.99
COLOR, ASTM	ASTM D 1500	Max 5.0	L1.5	L1.5
FLASH POINT (COC, °C)	ASTM D 92	Min 288	308	314
POUR POINT (°C)	ASTM D 6749	Max -10.0	-13	-13
RESIDUE CARBON(WT%)	ASTM D 4530	Max 0.7	0.10	0.07
COPPER CORROSION (100 °C X 3h)	ASTM D 130	Max 1	1b	1b
TOTAL ACID NO. (mg KOH/g)	ASTM D 974	Max 0.05	0.01	0.01

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OBQ REPORT

SHIPPER : S-OIL CORPORATION
 COMMODITY : ARAMCO DURA 150BS
 DESTINATION : TIANJIN, CHINA
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BEFORE LOADING

● Draft : Fwd. = 4.60M Aft. = 6.40M Trim = 1.80M List = Nil

Tank No.	Ullage (M)	Trim / List Corr.	Equip't / Dens. Corr.	Corr'd Ullage (M)	Total Obs Volume (K/L)	Free Water Innage (M)	Vol. (K/L)	Temp. (°F)	Tank Shell Corr.	Gross Obs Volume (K/L)	VCF T-6D	Gross Std Volume (K/L)
5P	0.000	0.000	0.000	0.000	0.000	N/F	0.000		N/A	0.000		0.000
5S	0.000	0.000	0.000	0.000	0.000	N/F	0.000		N/A	0.000		0.000
TOTAL					0.000		0.000			0.000		0.000

Sea Condition : Slight Sea
 Used Table : ASTM D-1250 table 6D, 12, 4 & 1
 Gauging Equip't : By visual

Total Loaded Onboard Quantity

0.000 KL at 60 °F
 0.00 BBLS at 60 °F
 0.000 KL at 15 °C
 0.00 LT
 0.000 MT



Signed by Master/Chief Officer
 of M/T GIANT SAMBU

Onsan, South Korea 10th Oct. 2023
 SGS Korea Co., Ltd.

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ULLAGE REPORT

SHIPPER : S-OIL CORPORATION
 COMMODITY : ARAMCO DURA 150BS
 DESTINATION : TIANJIN, CHINA
 LOADING PORT : ONSAN, SOUTH KOREA
 VESSEL NAME : M/T GIANT SAMBU
 SOIL REF. NO. : 386932285
 REPORT NO. : U23-20023484

AFTER LOADING

● Draft : Fwd.= 5.30M Aft.= 7.30M Trim = 2.00M List = Nil

Tank No.	Ullage (M)	Trim / List Corr.	Equip't / Dens. Corr.	Corr'd Ullage (M)	Total Obs Volume (K/L)	Free Water Innage (M)	Vol. (K/L)	Temp. (°F)	Tank Shell Corr.	Gross Obs Volume (K/L)	VCF T-6D	Gross Std Volume (K/L)
5P	4.244	-0.001	0.000	4.243	554.108	N/F	0.000	131.0	N/A	554.108	0.9720	538.593
5S	4.243	-0.001	0.000	4.242	554.036	N/F	0.000	131.4	N/A	554.036	0.9718	538.412
TOTAL					1,108.144		0.000	131.2		1,108.144		1,077.005

API @ 60F : 27.14 by calculated
 WCF (T-12) : 7.1806
 Sea Condition : Slight Sea
 Used Table : ASTM D-1250 table 6D, 12, 4 & 1
 Gauging Equip't : Ship's Level Gauge

Total Loaded Onboard Quantity

1,077.005 KL at 60 °F
 6,774.30 BBLS at 60 °F
 1,076.572 KL at 15 °C
 943.42 LT
 958.562 MT



Signed by Master/Chief Officer
 of M/T GIANT SAMBU

Onsan, South Korea 10th Oct. 2023
 SGS Korea Co., Ltd.

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 Natural Resources
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TANK CLEANLINESS REPORT

SHIPPER : S-OIL CORPORATION
 COMMODITY : ARAMCO DURA 150BS
 DESTINATION : TIANJIN, CHINA
 LOADING PORT : ONSAN, SOUTH KOREA
 VESSEL NAME : M/T GIANT SAMBU
 SOIL REF. NO. : 386932285
 REPORT NO. : U23-20023484

SUBJECTED CARGO TANKS (The below data was given by the ship's master/Chief officer.)

Vessel Tanks	Last Cargo	2nd Last Cargo	3rd Last Cargo	Tank Coating	Type
5P/S	MX	SM	GASOLINE	ZINC	A

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

● **Cleaning Method : A**

1. B/W with cold S/W for 1.0 hr
2. Flushing with cold F/W for 15 mins
3. Steaming(63'C)
4. Draining of tank, line, pump
5. Vent, Mop & dry

● **WERE GAS FREED AND SAFE FOR ENTRY.**

All designated tanks, numbered : 5P/S

We, therefore, performed tank entry inspection for the cargo tank(s)

The accessible surface of the tank(s) was visually checked by us and found to be sufficiently clean to carry the intended cargo ARAMCO DURA 150BS

Ship's lines and pumps were inspected only for accessible parts with clean condition and all the other parts were said to be clean by Chief officer.

Inspection time : 0200hrs - 0220hrs, 10th Oct. 2023



Signed by Master/Chief Officer
 M/T GIANT SAMBU

Onsan, South Korea 10th Oct. 2023
 SGS Korea Co., Ltd.



Oliver Park / Inspector
 Natural Resources
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SHORE TANK MEASUREMENT REPORT

SHIPPER : S-OIL CORPORATION
 COMMODITY : ARAMCO DURA 150BS
 DESTINATION : TIANJIN, CHINA
 LOADING PORT : ONSAN, SOUTH KOREA
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 REPORT NO. : U23-20023484

SHORE TANK'S SOUNDING BEFORE AND AFTER LOADING

Shore tank No.: TK-53133

Term	Innage (M)	T.O.V. (K/L)	Free Water		Temp. (°F)	Shell Corr.	Roof (K/L)	G.O.V. (K/L)	API at 60°F	V.C.F. T-6D	G.S.V. (KL.)
			(M)	(K/L)							
OP	8.151	537.953	N/F	0.000	130.6	1.000876	N/A	538.424	27.2	0.9722	523.456
CL	1.670	112.751	N/F	0.000	129.9	1.000867	N/A	112.849	27.2	0.9724	109.734

Delivered quantity : 413.722 KL at 60 °F

Shore tank No.: TK-53128

Term	Innage (M)	T.O.V. (K/L)	Free Water		Temp. (°F)	Shell Corr.	Roof (K/L)	G.O.V. (K/L)	API at 60°F	V.C.F. T-6D	G.S.V. (KL.)
			(M)	(K/L)							
OP	5.397	1,294.154	N/F	0.000	129.9	1.000867	N/A	1,295.276	27.1	0.9724	1,259.526
CL	2.538	613.906	N/F	0.000	129.4	1.000860	N/A	614.434	27.1	0.9726	597.599

Delivered quantity : 661.927 KL at 60 °F

Total Delivered Quantity

Unit	TK-53133	TK-53128	TOTAL
KL at 60 °F	413.722	661.927	1,075.649
BBLS at 60 °F	2,602.29	4,163.48	6,765.77
KL at 15 °C	413.556	661.660	1,075.216
LT	362.28	579.95	942.23
MT	368.095	589.258	957.353

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

Onsan, South Korea 10th Oct. 2023
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MASTER'S RECEIPT OF DOCUMENTS

SHIPPER : S-OIL CORPORATION
 COMMODITY : ARAMCO DURA 150BS
 DESTINATION : TIANJIN, CHINA
 LOADING PORT : ONSAN, SOUTH KOREA
 VESSEL NAME : M/T GIANT SAMBU
 SOIL REF. NO. : 386932285
 REPORT NO. : U23-20023484

I hereby acquired the following documents from the surveyor at Onsan, South Korea
 dated on 10th Oct. 2023

Certificate	For Consignee	For Master
CERTIFICATE OF QUANTITY	1 Copy	1 Copy
CERTIFICATE OF QUALITY	1 Copy	1 Copy
CERT OF ANALYSIS	1 Copy	1 Copy
ULLAGE REPORT	1 Copy	1 Copy
TIME SHEET	1 Copy	1 Copy
TANK CLEANLINESS REPORT	1 Copy	1 Copy
MASTER'S RECEIPT OF DOCUMENTS	1 Copy	1 Copy
MASTER'S RECEIPT OF SAMPLES	1 Copy	1 Copy
SAMPLE REPORT	1 Copy	1 Copy
SHORE TANK MEASUREMENT REPORT	1 Copy	1 Copy
VESSEL EXPERIENCE FACTOR	1 Copy	1 Copy
NON-WOOD PACKING DECLARATION	1 Copy	1 Copy
OBQ REPORT	1 Copy	1 Copy



Master of M/T GIANT SAMBU

Onsan, South Korea 10th Oct. 2023
 SGS Korea Co., Ltd.

Oliver Park / Inspector
 Natural Resources
 Oil, Gas & Chemical Commodities

MASTER'S RECEIPT OF SAMPLES

SHIPPER : S-OIL CORPORATION
 COMMODITY : ARAMCO DURA 150BS
 DESTINATION : TIANJIN, CHINA
 LOADING PORT : ONSAN, SOUTH KOREA
 VESSEL NAME : M/T GIANT SAMBU
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The following samples for Consignee was duly received by the Master of the vessel dated on 10th Oct. 2023

Size of Sample	SGS Seal Number	Sample Source
1 Litre X 2 Can	0912061	Composite sample ex Shore tank No. TK-53133 & 53128 before loading
1 Litre X 1 Btl	0912062	Composite sample ex Ship's tank No. 5P/S after loading



Master of M/T GIANT SAMBU

Onsan, South Korea 10th Oct. 2023
 SGS Korea Co., Ltd.

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 Natural Resources
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SAMPLE REPORT

SHIPPER : S-OIL CORPORATION
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 SOIL REF. NO. : 386932285
 REPORT NO. : U23-20023484

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>
<u>1) Sample ex. shore tank before loading</u>					
Tank No. TK-53133 & 53128	Composite	1,000	2	0912061	For Receiver
Tank No. TK-53133 & 53128	Composite	1,000	2	0912063	For Supplier
Tank No. TK-53133 & 53128	Composite	1,000	2	0912065	Retained by us
Tank No. TK-53133 & 53128	Composite	500	2	0912073	For Supplier's lab
<u>2) Sample ex. shore line before loading (Jetty)</u>					
Shore Line	Line drip	1,000	2	0912066	Retained by us
<u>3) Sample ex. Ship manifold before loading</u>					
Ship manifold at commence loading	Line drip	1,000	1	0912067	Retained by us
<u>4) 1st foot sample ex. each ship's tank(s) during loading.</u>					
Tank No. 5P/S	Individual	1,000	2	0912068	Retained by us
Tank No. 5P/S	Individual	1,000	2	Unsealed	Retained by us
<u>5) Hourly shore line drip sample during loading</u>					
Shore Line	Line drip	1,000	13	0912069	Retained by us
Shore Line	Line drip	1,000	13	Unsealed	Retained by us
<u>6) Composite sample ex ship's tank(s) after loading</u>					
Tank No. 5P/S	Composite	1,000	1	0912062	For Receiver
Tank No. 5P/S	Composite	1,000	1	0912064	For Supplier
Tank No. 5P/S	Composite	1,000	1	0912070	Retained by us
Tank No. 5P/S	Composite	500	1	0912073	For Supplier's lab
<u>7) Individual sample ex ship's tank(s) after loading</u>					
Tank No. 5P/S	Individual	1,000	2	0912071	Retained by us
Tank No. 5P/S	Individual	1,000	2	Unsealed	Retained by us
<u>8) Dead bottom sample ex ship's tank(s) after loading</u>					
Tank No. 5P/S	Dead bottom	1,000	2	0912072	Retained by us

The above samples will be retained only 3 months unless written instructions to be contrary are received.

Onsan, South Korea 10th Oct. 2023
 SGS Korea Co., Ltd.


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VESSEL EXPERIENCE FACTOR

SHIPPER : S-OIL CORPORATION
 COMMODITY : ARAMCO DURA 150BS
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Voyage No.	Cargo	Date	M/TONS		Diff. Ship-BL	VLR Ship/BL	Port
			Ship	B/L			
<div>Vessel is chemical tanker that used to load grades in a spot or parcel, hence a steady data for VEF is not available onboard.</div>							
Total						0.00000	Average VLR
Qualifying total							V.E.F.
Present voyage			958.562	957.353	1.209	1.00126	0.126%

(*) 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 : 957.353
 Ship Loaded Present Voyage : 958.562
 V.E.F. : N/A
 Theoretical Ship's Figure : N/A
 Difference :
 Pct :

Note: API MPMS Chapter 17.9 / EI HM 49 - 3rd edition on July 2019

Signed by Master/Chief Officer
 of M/T GIANT SAMBU

Onsan, South Korea 10th Oct. 2023
 SGS Korea Co., Ltd.

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 Natural Resources
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NON-WOOD PACKING DECLARATION

SHIPPER : S-OIL CORPORATION
COMMODITY : ARAMCO DURA 150BS
DESTINATION : TIANJIN, CHINA
LOADING PORT : ONSAN, SOUTH KOREA
VESSEL NAME : M/T GIANT SAMBU
SOIL REF. NO. : 386932285
REPORT NO. : U23-20023484

To : Service of China Entry and Exit Inspection and Quarantine

We hereby confirm that the cargo loaded on M/T GIANT SAMBU for transportation from Onsan, South Korea to Tianjin, China 957.353 M/Tons is packed in bulk Non-Wooden packing material.

Onsan, South Korea 10th Oct. 2023
SGS Korea Co., Ltd.

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TIME SHEET

SHIPPER : S-OIL CORPORATION
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 VESSEL NAME : M/T GIANT SAMBU
 SOIL REF. NO. : 386932285
 REPORT NO. : U23-20023484

DATE	TIME	PARTICULARS
06-Oct-2023	1200 hrs	* Arrived at Onsan, Korea
"	1200 hrs	* NOR Tendered
"	1200 hrs	* Dropped anchor
10-Oct-2023	0050 hrs	* Anchor Aweigh
"	0140 hrs	* First line ashore
"	0150 hrs	* All made fast to S-Oil G-3
"	0155 hrs	* Ship's Gangway down
"	0155 hrs	Surveyor on board
"	0200-0220 hrs	Inspected cargo tanks
"	0220 hrs	* NOR accepted
"	0300 hrs	Connected 6" x 1 loading hose for ARAMCO DURA 150BS
"	0310 hrs	Commenced loading for ARAMCO DURA 150BS
"	0410-0430 hrs	Took 1st foot sample for ARAMCO DURA 150BS
"	1620 hrs	Completed loading for ARAMCO DURA 150BS
"	1620-1700 hrs	Sampling, Gauging & Calculation
"	1630 hrs	Disconnected loading hose for ARAMCO DURA 150BS
"	1730 hrs	Document on board
"	1740 hrs	Surveyor left her
"	1800 hrs	* Left berth

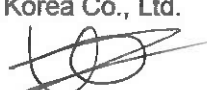
Remark :

LAYCAN : 02nd Oct. 2023 ~ 06th Oct. 2023



Master of M/T GIANT SAMBU

Onsan, South Korea 10th Oct. 2023
 SGS Korea Co., Ltd.


 Oliver Park / Inspector
 Natural Resources
 Oil, Gas & Chemical Commodities

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.

NOTICE OF APPARENT DISCREPANCY

SHIPPER : S-OIL CORPORATION
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 DESTINATION : TIANJIN, CHINA
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☒ At Loading ☐ At Discharge ☐ At Transfers

Our inspector observed the following discrepancies/circumstances that could be detrimental to correct ascertainment of quantity or that could adversely affect or hinder satisfactory performance and/or result of our inspection/intervention.

Observations:

Quantity discrepancy between Bill of Lading figure and Ship's figure

<u>Unit</u>	<u>K/L at 60°F</u>	<u>BBLS at 60°F</u>	<u>K/L at 15°C</u>	<u>Long Tons</u>	<u>Metric Tons</u>
B/L Figure	1,075.649	6,765.77	1,075.216	942.23	957.353
Ship's Figure	1,077.005	6,774.30	1,076.572	943.42	958.562
Difference	1.356	8.53	1.356	1.19	1.209
Percentage	0.126%	0.126%	0.126%	0.126%	0.126%



Signed by Master/Chief Officer
 of M/T GIANT SAMBU

Onsan, South Korea 10th Oct. 2023
 SGS Korea Co., Ltd.

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