Singapore

ExxonMobil GMTO Heavy Products Brussels

INTV009FIN-2103-0014

Job No 12010/00086207.0000/01/I/21

Report date 09 Mar 2021

Installation Rotterdam, Netherlands, Vopak Terminal Europoort

Vessel SONGA JADE

Product BH - LCO PJG, FO HS >1.035SG

Outturn date: 07 Mar 2021 Contents page

Saybolt Nederland BV has performed a survey of the above mentioned object, the findings of the survey are reflected in the following reports:

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Shore Tank Report Single	two
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Idle Cargo Tank Report	one
Line Displacement Report	one
Bunker Report	two
Sample Report	one

This report consists of 22 pages.

A copy of this report and all field documents and related correspondence will be retained for a period of 10 years, unless local law requires otherwise

Handled by: Martijn Visser

This report reflects only the findings at the time and place of the inspection and testing. This report is not a guarantee or policy of insurance with respect to the goods or the contractual performance of any party. Any person relying upon this report should be aware that issuer's activities are carried out under their general terms and conditions

Saybolt A CORE LABORATORIES COMPANY

Date: 09 Mar 2021 21:48

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ExxonMobil GMTO Heavy Products Brussels

INTV009FIN-2103-0014

Job No 12010/00086207.0000/01/I/21

Report date 09 Mar 2021

Installation Rotterdam, Netherlands, Vopak Terminal Europoort

Vessel **SONGA JADE Product BH-LCOPJG** 



#### **Cover Page Discharge**

Date: 09 Mar 2021 21:48 Page 2 of 22

#### Discharge data

•			
Quantity data			
Outturn is based on:		Shore tank measurements	
Outturn figure amounts to GSV	Liters 15°C	9,747,638	
Outturn date		07 Mar 2021	
Loadport		Port Jerome	
B/L Date		25 Feb 2021	
Average product temperature onboard	°C	31.66	
Calculation data			
Shore tank Volume conversion table used		54B	
Vessel Volume conversion table used		54B	
Shore data			
Discharge Installation		Vopak Terminal Europoort	
Shore tank number(s)		1060	
Shore tank measurements were carried out with		Shore equipment/ATG	by Automatic Tank Gauge
Shore tank temperatures were carried out with		Shore equipment/ATG	by Automatic Tank Temperature
Vessel data			
Cargo stowed in cargo tanks		P1, S1, P2, S2, P5, S5, P6, S6	
Type of standpipes of vessel tanks		None	
Vessel tank measurement were carried out with		Vessel/barge equipment/ATG	by UTI
Vessel tank measurement equipment number		G15184	
Vessel tank temperature equipment number		G15184	
Sea Condition		Smooth (wavelets) - 0.1 to 0.5 m (3.9 in t	to 1 ft 7.7 in)
Weather condition		Clear Sky	
Operational data			
Agreed Pump rate	Cbm/hr	1,800	
Diff. agreed and average pump rate		815	
Ambient outside temperature at discharge		-1.00	
Quality has been determined by		Vessel	

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Report date 09 Mar 2021

Installation Rotterdam, Netherlands, Vopak Terminal Europoort

Vessel **SONGA JADE Product** FO HS >1.035SG

#### **Cover Page Discharge**

#### Discharge data

Quantity data			
Outturn is based on:		Shore tank measurements	
Outturn figure amounts to GSV	Liters 15°C	5,319,922	
Outturn date		07 Mar 2021	
Loadport		Port Jerome	
B/L Date		25 Feb 2021	
Average product temperature onboard	°C	59.76	
Calculation data			
Shore tank Volume conversion table used		54B	
Vessel Volume conversion table used		54B	
Shore data			
Discharge Installation		Vopak Terminal Europoort	
Shore tank number(s)		1062	
Shore tank measurements were carried out with		Shore equipment/ATG	by Automatic Tank Gauge
Shore tank temperatures were carried out with		Shore equipment/ATG	by Automatic Tank Temperature
Vessel data			
Cargo stowed in cargo tanks		P3, S3, P4, S4, P7, S7	
Type of standpipes of vessel tanks		None	
Vessel tank measurement were carried out with		Vessel/barge equipment/ATG	by UTI
Vessel tank measurement equipment number		G15184	
Vessel tank temperature equipment number		G15184	
Sea Condition		Smooth (wavelets) - 0.1 to 0.5 m (3.9 in to 1 ft 7.	.7 in)
Weather condition		Clear Sky	
Operational data			
Agreed Pump rate	Cbm/hr	1,800	
Diff. agreed and average pump rate		646	
Ambient outside temperature at discharge		-1.00	
Quality has been determined by		Vessel	
Special conditions which occured during operation			

A line displacement has been performed at commencement of Operation

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ExxonMobil GMTO Heavy Products Brussels

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12010/00086207.0000/01/I/21 Job No

Report date 09 Mar 2021

Installation Rotterdam, Netherlands, Vopak Terminal Europoort

Vessel **SONGA JADE** 

**Product** BH - LCO PJG, FO HS >1.035SG

Outturn date: 07 Mar 2021 **Time Log** 

06 Mar 2021 (Saturday	
, ,	
01:54	End of Sea Passage *
02:18	Notice of Readiness Tendered *
02:18	Pilot on Board *
04:36	First Line Ashore *
05:10	Moored Alongside Berth (All Fast)
05:10	Notice of Readiness Received
05:54	Arm Connected ( 1 x 12") (BH - LCO PJG)
05:54	Arm Connected ( 1 x 12" ) (FO HS >1.035SG)
06:18	Saybolt onboard before Operation
06:30	Commenced Initial Inspection
<b>1</b> 07:00	Delay: Awaiting terminal's infrastructure due to internal pipeline transfer (11 hours and 14 minutes)
08:30	Completed Initial Inspection and Calculations, Tank(s) Measured and Sampled
09:00	Cargo calculations completed
18:36	Delay: Awaiting ship's readiness due to slop discharge to barge Denver (1 hour and 54 minutes)
20:36	COMMENCED DISCHARGE (FO HS >1.035SG)
21:30	Suspended discharge for line displacement calculation (FO HS >1.035SG)
21:42	Resumed discharge
07 Mar 2021 (Sunday)	
05:18	COMPLETED DISCHARGE (FO HS >1.035SG)
07:18	Surveyor on board during operation
07:34	Intermediate inspection completed
08:06	COMMENCED DISCHARGE (BH - LCO PJG)
20:12	COMPLETED DISCHARGE (BH - LCO PJG)
20:30	Arm Disconnected (FO HS >1.035SG)
20:30	Arm Disconnected (BH - LCO PJG)
21:00	Saybolt onboard after Operation
22:10	Completed Final Inspection and Calculations, Tank(s) Inspected on Emptiness
23:18	Object Sailed *

<sup>\*</sup> as per information received



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ExxonMobil GMTO Heavy Products Brussels

INTV009FIN-2103-0014

12010/00086207.0000/01/I/21 Job No

Report date 09 Mar 2021

Installation Rotterdam, Netherlands, Vopak Terminal Europoort

Vessel **SONGA JADE Product** FO HS >1.035SG

Outturn date: 07 Mar 2021 **Summary Discharge (GSV)** 

#### **Gross Standard Volume Data**

GSV Figures	Loadport Incl OBQ	Disport Incl ROB	Δ Quantity	Δ%
Liters 15°C	5,321,505	5,320,489	-1,016	-0.02
Barrels 60°F	33,483.98	33,477.59	-6.39	-0.02
US Gallons 60°F	1,406,327	1,406,059	-268	-0.02
Metric Tons Vac	5,292.237	5,291.226	-1.011	-0.02
Metric Tons Air	5,286.648	5,285.638	-1.010	-0.02
Long Tons Air	5,203.15	5,202.16	-0.99	-0.02
GSV Figures	Loadport Excl OBQ	Disport Excl ROB	Δ Quantity	Δ%
Liters 15°C	5,321,505	5,320,489	-1,016	-0.02
Barrels 60°F	33,483.98	33,477.59	-6.39	-0.02
US Gallons 60°F	1,406,327	1,406,059	-268	-0.02
Metric Tons Vac	5,292.237	5,291.226	-1.011	-0.02
Metric Tons Air	5,286.648	5,285.638	-1.010	-0.02
Long Tons Air	5,203.15	5,202.16	-0.99	-0.02
GSV Figures	Bill of Lading	Shore receipt	Δ Quantity	Δ%
Liters 15°C	5,330,147	5,319,922	-10,225	-0.19
Barrels 60°F	33,538.36	33,474.02	-64.34	-0.19
US Gallons 60°F	1,408,611	1,405,909	-2,702	-0.19
Metric Tons Vac	5,300.831	5,290.688	-10.143	-0.19
Metric Tons Air	5,295.501	5,285.100	-10.401	-0.20
Long Tons Air	5,211.87	5,201.63	-10.24	-0.20

	Density 15°C	Density 20°C	API 60°F	RD 60/60°F	S&W%
Vessel Discharged	0.9945		10.70	0.9951	
Bill of Lading	0.9945	0.9911	10.70	0.9951	
Shore Receipt	0.9945	0.9911	10.70	0.9951	

General Data	
Vessel Loaded Ratio	0.99838
Vessel Experience Factor Based on 2nd average	0.9984
Loadport	Port Jerome

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ExxonMobil GMTO Heavy Products Brussels

INTV009FIN-2103-0014

12010/00086207.0000/01/I/21 Job No

Report date 09 Mar 2021

Installation Rotterdam, Netherlands, Vopak Terminal Europoort

Vessel **SONGA JADE Product BH-LCOPJG** Outturn date: 07 Mar 2021



#### **Gross Standard Volume Data**

GSV Figures	Loadport Incl OBQ	Disport Incl ROB	Δ Quantity	Δ%
Liters 15°C	9,736,836	9,736,590	-246	
Barrels 60°F	61,268.59	61,267.04	-1.55	
US Gallons 60°F	2,573,281	2,573,216	-65	
Metric Tons Vac	8,915.047	8,914.822	-0.225	
Metric Tons Air	8,904.705	8,904.480	-0.225	
Long Tons Air	8,764.07	8,763.85	-0.22	
GSV Figures	Loadport Excl OBQ	Disport Excl ROB	Δ Quantity	Δ%
Liters 15°C	9,736,836	9,736,590	-246	
Barrels 60°F	61,268.59	61,267.04	-1.55	
US Gallons 60°F	2,573,281	2,573,216	-65	
Metric Tons Vac	8,915.047	8,914.822	-0.225	
Metric Tons Air	8,904.705	8,904.480	-0.225	
Long Tons Air	8,764.07	8,763.85	-0.22	
GSV Figures	Bill of Lading	Shore receipt	Δ Quantity	Δ%
Liters 15°C	9,752,435	9,747,638	-4,797	-0.05
Barrels 60°F	61,366.74	61,336.56	-30.18	-0.05
US Gallons 60°F	2,577,403	2,576,136	-1,267	-0.05
Metric Tons Vac	8,929.329	8,924.564	-4.765	-0.05
Metric Tons Air	8,918.602	8,914.211	-4.391	-0.05
Long Tons Air	8,777.75	8,773.42	-4.33	-0.05
Metric Tons Vac Metric Tons Air	8,929.329 8,918.602	8,924.564 8,914.211	-4.765 -4.391	-0.05 -0.05

	Density 15°C	Density 20°C	API 60°F	RD 60/60°F	S&W%
Vessel Discharged	0.9156		22.96	0.9161	
Bill of Lading	0.9156	0.9121	22.96	0.9161	
Shore Receipt	0.9156	0.9121	22.96	0.9161	

General Data	
Vessel Loaded Ratio	0.99840
Vessel Experience Factor Based on 2nd average	0.9984
Loadport	Port Jerome

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INTV009FIN-2103-0014

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Report date 09 Mar 2021

Installation Rotterdam, Netherlands, Vopak Terminal Europoort

Vessel SONGA JADE Product FO HS >1.035SG

Outturn date: 07 Mar 2021 Shore Tank Report Single

# Shore tank 1062 at Vopak Terminal Europoort

-	•		
Shore tank measurement		Open	Close
Date / Time of measurement		06 Mar 2021 19:31	07 Mar 2021 06:08
Average Innage	m m	3364	9228
Average temp.	°C	44.40	54.60
T.O.V.	Liters	3,174,682	8,542,343
Line content	Liters	12,873	135,262
G.O.V.	Liters	3,187,555	8,677,605
Dens 15°C	kg/l	1.0180	1.0032
V.C.F.	54B	0.98055	0.97325
G.S.V.	liters 15°C	3,125,557	8,445,479
Dens 15°C	kg/l	1.0180	1.0032
Metric Tons Vac		3,181.817	8,472.505

Totals				GSV	NSV
T.O.V.	Liters	5,367,661	Liters 15°C	5,319,922	
Line content	Liters	122,389	Barrels 60°F	33,474.02	
G.O.V.	Liters	5,490,050	US Gallons 60°F	1,405,909	
			Metric Tons Vac	5,290.688	
Density 15°C	kg/l	0.9945	Metric Tons Air	5,285.100	
RD 60/60°F		0.9951	Long Tons Air	5,201.63	
API 60°F		10.70			
Average Temp.	°C	60.52			

Tables used: 54B and Dens. 15°C kg/l.



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Vessel SONGA JADE Product BH - LCO PJG

Outturn date: 07 Mar 2021 Shore Tank Report Single

# Shore tank 1060 at Vopak Terminal Europoort

Shore tank measurement		Open	Close
Date / Time of measurement		07 Mar 2021 06:16	07 Mar 2021 20:14
Average Innage	m m	510	11156
Average temp.	°C	19.50	30.60
T.O.V.	Liters	589,289	10,336,111
Line content	Liters	27,135	149,524
G.O.V.	Liters	616,424	10,485,635
Dens 15°C	kg/l	0.9297	0.9164
V.C.F.	54B	0.99667	0.98821
G.S.V.	liters 15°C	614,371	10,362,009
Dens 15°C	kg/l	0.9297	0.9164
Metric Tons Vac		571.181	9,495.745

Totals				GSV	NSV
T.O.V.	Liters	9,746,822	Liters 15°C	9,747,638	
Line content	Liters	122,389	Barrels 60°F	61,336.56	
G.O.V.	Liters	9,869,211	US Gallons 60°F	2,576,136	
			Metric Tons Vac	8,924.564	
Density 15°C	kg/l	0.9156	Metric Tons Air	8,914.211	
RD 60/60°F		0.9161	Long Tons Air	8,773.42	
API 60°F		22.96			
Average Temp.	°C	31.29			

Tables used: 54B and Dens. 15°C kg/l.

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Report date 09 Mar 2021

Installation Rotterdam, Netherlands, Vopak Terminal Europoort

Vessel **SONGA JADE BH-LCOPJG Product** 

**Ullage Report Arrival** Outturn date: 07 Mar 2021

Survey Date and Time 06 Mar 2021 09:00 Dens.15°C Vac 0.9156 Temp °C Tank ullage ullage corr TOV Free water GOV VCF table **GSV** Liters Liters Liters 54B Liters 15°C mm mm mm P1 748,753 748,753 34.20 0.98546 737,866 4620 NIL S1 4560 762,625 NIL 762,625 34.40 0.98531 751,422 P2 1300 1,272,189 NIL 1,272,189 31.30 0.98766 1,256,490 0.98797 S2 1310 1,270,941 NIL 1,270,941 30.90 1,255,652 P5 1370 1,454,143 NIL 1,454,143 30.20 0.98850 1,437,420 S5 1310 1,452,457 NIL 1,452,457 29.20 0.98926 1,436,858 P6 1,445,030 31.80 0.98728 1,426,649 1360 NIL 1.445.030 NIL 0.98584 S6 1340 1,454,833 1,454,833 33.70 1,434,233 9,860,971 9,860,971 9,736,590 Totals

#### **Summary Totals**

On-board figures	ROB Information	Draft		Correction		
GSV Liters 15°C	9,736,590	FORE	m	8.80 TRIM	m	nil
TCV Liters 15°C	9,736,590	AFT	m	8.80 LIST	۰	nil

				Trim/List correction applied:	No
On-board figures		Discharged figures			
GSV Liters 15°C	9,736,590	GSV Disch. Ltrs 15°C	9,736,590	Average Product Temp °C	31.66
GSV Barrels 60°F	61,267.04	GSV Disch. Bbls 60°F	61,267.04	Sea Water temp	5
GSV US gallons 60	2,573,216	GSV Disch. US Glns 60°F	2,573,216	Ambient temp	-1
MT vac	8,914.822	MT Vac Disch.	8,914.822		
MT air	8,904.480	MT Air Disch.	8,904.480		
LT	8,763.85	LT Disch.	8,763.85		

Signed by: Ship's representative Name: Reno L. De La Raga

Rank: Chief Officer

Measurements in accordance with API standards. Saybolt Nederland B.V., P.O. Box 151, 3000 AD Rotterdam, The Netherlands Saybolt representative Jeroen Hoek Saybolt Inspector

Date: 09 Mar 2021 21:48

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Report date 09 Mar 2021

Installation Rotterdam, Netherlands, Vopak Terminal Europoort

Vessel **SONGA JADE BH-LCOPJG Product** 

Outturn date: 07 Mar 2021 **Ullage Report LoadPort** 

Survey Date and Time 25 Feb 2021 Dens.15°C Vac 0.9156 Temp °C Tank ullage ullage corr TOV Free water GOV VCF table **GSV** Liters Liters 54B Liters 15°C mm mm P1 748,145 748,145 29.50 0.98903 739,938 4625 S1 4620 755,276 755,276 29.20 0.98926 747,164 P2 1285 1,273,758 1,273,758 29.40 0.98911 1,259,887 29.70 0.98888 1,253,705 S2 1340 1,267,803 1,267,803 1,454,726 P5 1365 1,454,726 29.60 0.98895 1,438,651 S5 1340 1,448,980 1,448,980 29.00 0.98941 1,433,635 P6 1345 1,446,767 1,446,767 30.60 0.98820 1,429,695 0.98857 S6 1375 1,450,743 1,450,743 30.10 1,434,161 9,846,198 9,846,198 9,736,836 Totals

### **Summary Totals**

On-board figures	OBQ Information	Draft		Correction		
GSV Liters 15°C	9,736,836	FORE	m	8.90 TRIM	m	nil
TCV Liters 15°C	9,736,836	AFT	m	8.90 LIST	۰	nil

		rim/List correction applied:
On-board figures		
GSV Liters 15°C	9,736,836	Average Product Temp °C
GSV Barrels 60°F	61,268.59	
GSV US gallons 60	2,573,281	
MT vac	8,915.047	
MT air	8,904.705	
LT	8,764.07	

#### Remarks

Ullages and temperatures copied from load port, recalculated by Saybolt.

Signed by: Ship's representative Name: Reno L. De La Raga

Rank: Chief Officer

Saybolt representative

Saybolt Inspector

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Report date 09 Mar 2021

Installation Rotterdam, Netherlands, Vopak Terminal Europoort

Vessel **SONGA JADE Product** FO HS >1.035SG

Outturn date: 07 Mar 2021 Survey Date and Time 06 Mar 2021 09:00

#### **Ullage Report Arrival**

Survey D	ate and Time	06 Mar 2021 09	9:00				Dens.15°	C Vac	0.9945
Tank	ullage mm	ullage corr mm	TOV Liters	Free v	vater Liters	GOV Liters	Temp °C	VCF table 54B	GSV Liters 15°C
P3	3930		1,003,529	NIL		1,003,529	59.80	0.96937	972,791
S3	3930		1,002,049	NIL		1,002,049	61.30	0.96833	970,314
P4	3940		945,703	NIL		945,703	60.30	0.96902	916,405
S4	3950		945,997	NIL		945,997	59.30	0.96971	917,343
P7	4090		803,721	NIL		803,721	58.80	0.97005	779,650
S7	4190		787,460	NIL		787,460	58.60	0.97019	763,986
Totals			5,488,459			5,488,459			5,320,489

#### **Summary Totals**

On-board figures	ROB Information	Draft		Correction		
GSV Liters 15°C	5,320,489	FORE	m	8.80 TRIM	m	nil
TCV Liters 15°C	5,320,489	AFT	m	8.80 LIST	۰	nil

				i rim/List correction applied:	NO
On-board figures		Discharged figures			
GSV Liters 15°C	5,320,489	GSV Disch. Ltrs 15°C	5,320,489	Average Product Temp °C	59.76
GSV Barrels 60°F	33,477.59	GSV Disch. Bbls 60°F	33,477.59	Sea Water temp	5
GSV US gallons 60	1,406,059	GSV Disch. US Glns 60°F	1,406,059	Ambient temp	-1
MT vac	5,291.226	MT Vac Disch.	5,291.226		
MT air	5,285.638	MT Air Disch.	5,285.638		
LT	5,202.16	LT Disch.	5,202.16		

Signed by: Ship's representative Name: Reno L. De La Raga Rank: Chief Officer

Measurements in accordance with API standards.

Saybolt representative Jeroen Hoek Saybolt Inspector

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Vessel **SONGA JADE Product** FO HS >1.035SG

Outturn date: 07 Mar 2021

#### **Ullage Report LoadPort**

Survey Da	ate and Time	25 Feb 2021					Dens.15°	C Vac	0.9945
Tank	ullage	ullage corr	TOV	Free v		GOV	Temp	VCF table	GSV
	mm	mm	Liters	mm	Liters	Liters	°C	54B	Liters 15°C
P3	3905		1,006,630			1,006,630	60.10	0.96916	975,586
S3	3955		998,948			998,948	61.40	0.96826	967,241
P4	3915		948,633			948,633	61.87	0.96794	918,220
S4	3965		944,239			944,239	61.50	0.96819	914,203
P7	4040		808,913			808,913	59.20	0.96978	784,468
S7	4205		785,915			785,915	59.90	0.96930	761,787
Totals			5 493 278			5 493 278			5 321 505

#### **Summary Totals**

On-board figures	OBQ Information	Draft		Correction		
GSV Liters 15°C	5,321,505	FORE	m	8.90 TRIM	m	nil
TCV Liters 15°C	5,321,505	AFT	m	8.90 LIST	۰	nil

		I rim/List correction applied:
On-board figures		
GSV Liters 15°C	5,321,505	Average Product Temp °C
GSV Barrels 60°F	33,483.98	
GSV US gallons 60	1,406,327	
MT vac	5,292.237	
MT air	5,286.648	
LT	5,203.15	

#### Remarks

Ullages and temperatures copied from load port, recalculated by Saybolt.

Signed by: Ship's representative Name: Reno L. De La Raga

Rank: Chief Officer

Saybolt representative

Saybolt Inspector

Singapore

ExxonMobil GMTO Heavy Products Brussels

INTV009FIN-2103-0014

12010/00086207.0000/01/I/21 Job No

Report date 09 Mar 2021

Installation Rotterdam, Netherlands, Vopak Terminal Europoort

Vessel **SONGA JADE** 

BH - LCO PJG, FO HS >1.035SG **Product** 

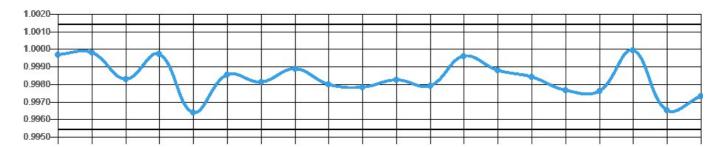
Outturn date: 07 Mar 2021 **Vessel Experience Report** 

	Voyage number	Grade	Port	Date	Ship's Sailing	OBQ	B/L	Difference	VLR Ship /	Qual. voyage
					Metric Tons	Metric Tons	Metric Tons	Metric Tons	Shore	
last	30621006	Gofinate	Antwerp	28 Feb 2021	14,789.748		14,794.227	-4.479	0.99970	yes
2nd	30621005	HSSR FO	Gdansk	16 Feb 2021	15,995.181		15,997.996	-2.815	0.99982	yes
3rd	30621004B, 30621004A	Slurry Oil, BH - LCO PJG	Port Jerome	08 Feb 2021	16,275.787		16,303.628	-27.841	0.99829	yes
4th	30621003	FO	Gedansk, Poland	27 Jan 2021	11,986.006		11,989.351	-3.345	0.99972	yes
5th	30621002	Crude Oil	Gdansk STS MT Apatyth	25 Jan 2021	15,136.854		15,136.854			
6th	30621001	LSVGO	Sillamae	08 Jan 2021	15,630.678		15,686.949	-56.271	0.99641	yes
7th	30620016	VLSFO	Rotterdam	31 Dec 2020	15,953.495		15,976.440	-22.945	0.99856	yes
8th	30620015	Slurry	Stanlow	19 Dec 2020	11,856.821		11,879.294	-22.473	0.99811	yes
9th	30620014 a,b	HSVGO / Slurry	Antwerp / Donges	12 Dec 2020	31,132.809		31,168.438	-35.629	0.99886	yes
10th	30620013	HSVGO	Donges	28 Nov 2020	15,916.637		15,948.533	-31.896	0.99800	yes
11th	30620012	HSVGO	Donges	01 Nov 2020	15,815.173		15,849.444	-34.271	0.99784	yes
12th	30620011	Slurry	Stanlow	16 Oct 2020	10,886.683		10,905.705	-19.022	0.99826	yes
13th	30620010	Cat Feed	Rotterdam	01 Oct 2020	15,856.271		15,889.694	-33.423	0.99790	yes
14th	30620009	HSVGO	Antwerp, Belgium	16 Sep 2020	14,939.477		14,945.708	-6.231	0.99958	yes
15th	30620009	Fuel Cutter	Gothenburg, Sweden	11 Sep 2020	12,351.491		12,366.312	-14.821	0.99880	yes
16th	30620008	HSVGO	Antwerp	20 Aug 2020	15,864.264		15,889.287	-25.023	0.99843	yes
17th	30620008	HSVGO	Nynashamn	14 Aug 2020	11,950.997		11,978.871	-27.874	0.99767	yes
18th	30620007	Slurry	Port Jerome	21 Jul 2020	14,994.871		15,031.004	-36.133	0.99760	yes
19th	30620006	Hydrocrackate	Rotterdam	15 Jun 2020	11,907.824		11,908.558	-0.734	0.99994	yes
20th	30620005	HSFO	Gdansk	15 Jun 2020	14,386.771		14,437.176	-50.405	0.99651	yes
Totals	3									
			Totals		288,490.984		288,946.615			
			Qualifying Totals		288,490.984		288,946.615			
First	average (Total Ship/Total Sh	nore)				0.99842				
+ 0.3	% of first average (excl. gross	errors)				1.00142	- 0.3%	0.99542		
Seco	nd average (Qualifying Tota	Ship/ Qualifying Total Shore	e)			0.99842				
+ 0.3	% of second average					1.00142	- 0.3%	0.99542		
Vac	sal Evnerience Fac	tor based on seco	nd average			0 9984				

Vessel Experience Factor based on second average

The above mentioned quantities are for the last 20 voyages obtained from ship record and can not be guaranteed as accurate by Saybolt. No liability can be assumed for errors resulting from improper information supplied by the vessel.

The resulting VEF has been calculated in accordance with the latest method published by the Energy Institute and the API as API MPMS 17.9 / Energy Institute HM 49, unless as otherwise noted and with the agreement of interested parties.



## Voyages excluded:

- A Gross error voyages
- B. Voyages where only vessel tank measurements were available.
- C. All voyages prior to any changes to measurement equipment, tables, vessel's structure, or other changes requiring the issuance of new capacity tables

Signed by: Ship's representative Name: Reno L. De La Raga

Rank: Chief Officer

Saybolt representative

J. Hoek

Saybolt Inspector

Saybolt Nederland B.V., P.O. Box 151, 3000 AD Rotterdam, The Netherlands Tel. +31 (0)10 46 09 911 FAX +31 (0)10 435 3600 Website: www.saybolt.com E-mail:saybolt@corelab.com All our activities are carried out under Saybolt's terms and conditions, available at www.corelab.com/saybolt/terms-conditions

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ExxonMobil GMTO Heavy Products Brussels

INTV009FIN-2103-0014

Job No 12010/00086207.0000/01/I/21

Report date 09 Mar 2021

Installation Rotterdam, Netherlands, Vopak Terminal Europoort

Vessel SONGA JADE Product BH - LCO PJG

Outturn date: 07 Mar 2021 ROB Report

Survey Date and Time 07 Mar 2021 22:10

Tank	nk Total Observed Volume		Liqui	Liquid Oil		iquid	Free	water
	sounding	Volume	sounding	Volume	sounding	Volume	sounding	Volume
	mm	Liters	mm	Liters	mm	Liters	mm	Liters
P1	NIL		NIL		NIL		NIL	
S1	NIL		NIL		NIL		NIL	
P2	NIL		NIL		NIL		NIL	
S2	NIL		NIL		NIL		NIL	
P5	NIL		NIL		NIL		NIL	
S5	NIL		NIL		NIL		NIL	
P6	NIL		NIL		NIL		NIL	
S6	NIL		NIL		NIL		NIL	

#### **Summary Totals**

On -board figures		Draft	Correction	ıs	
Total Observed Volume	Liters	Fore m	6.50 Trim	m	2.00
Free Water	Liters	Aft m	8.50 List	•	nil
Gross Observed Volume	Liters	Sea water temperature		°C	7
Liquid Volume	Liters	Ambient temperature		°C	6
Non-Liquid Volume	Liters	Trim/List correction applied?			No
		Wedge formula applied?			No

#### Remarks

- 1. Above volumes presumed to be at standard temperature unless otherwise noted.
- 2. Above volumes exclude any clingage.
- 3. Measurements are taken at one point only unless otherwise stated.

Signed by: Ship's representative
Name: Reno L. De La Raga
Rank: Chief Officer

Saybolt representative Daniel Groen Saybolt Inspector

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ExxonMobil GMTO Heavy Products Brussels

INTV009FIN-2103-0014

12010/00086207.0000/01/I/21 Job No

Report date 09 Mar 2021

Installation Rotterdam, Netherlands, Vopak Terminal Europoort

Vessel **SONGA JADE Product** FO HS >1.035SG

**ROB Report** Outturn date: 07 Mar 2021

Survey Date and Time 07 Mar 2021 22:10

Tank	Total Observed Volume		Liqui	Liquid Oil		Non-Liquid		Free water	
	sounding	Volume	sounding	Volume	sounding	Volume	sounding	Volume	
	mm	Liters	mm	Liters	mm	Liters	mm	Liters	
P3	NIL		NIL		NIL		NIL		
S3	NIL		NIL		NIL		NIL		
P4	NIL		NIL		NIL		NIL		
S4	NIL		NIL		NIL		NIL		
P7	NIL		NIL		NIL		NIL		
S7	NIL		NIL		NIL		NIL		

#### **Summary Totals**

On -board figures		Draft		Corrections		
Total Observed Volume	Liters	Fore m	6.50	Trim m		2.00
Free Water	Liters	Aft m	8.50	List °		nil
Gross Observed Volume	Liters	Sea water temperature		°C	7	
Liquid Volume	Liters	Ambient temperature		°C	6	
Non-Liquid Volume	Liters	Trim/List correction applie	d?		No	
		Wedge formula applied?			No	

#### Remarks

- Above volumes presumed to be at standard temperature unless otherwise noted.
- Above volumes exclude any clingage.
   Measurements are taken at one point only unless otherwise stated.

Signed by: Ship's representative Name: Reno L. De La Raga Rank: Chief Officer

Saybolt representative Daniel Groen Saybolt Inspector

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12010/00086207.0000/01/I/21 Job No

Report date 09 Mar 2021

Installation Rotterdam, Netherlands, Vopak Terminal Europoort

Vessel **SONGA JADE Product BH-LCOPJG** Outturn date: 07 Mar 2021



**Reference Height Report (additional)** 

	Ma	nual Tank H	eights in cm		Auto Gauge Heights in cm					
Tank	Calibrated	Calibrated Four		Gauging	Stow	ed Height	Manual	Auto		
	Ref.Height	Before	After	Location	Calibrated	Observed	Gauge	Gauge		
P1	12,130	12,130	12,130	Center			4,620	4,549		
S1	12,120	12,120	12,120	Center			4,560	4,633		
P2	12,140	12,140	12,140	Center			1,300	1,262		
S2	12,120	12,120	12,120	Center			1,310	1,348		
P5	12,130	12,130	12,130	Center			1,370	1,310		
S5	12,140	12,140	12,140	Center			1,310	1,348		
P6	12,130	12,130	12,130	Center			1,360	1,320		
S6	12,130	12,130	12,130	Center			1,340	1,379		
00	12,100	12,100	12,100	Ochter			1,040	1,010		

<sup>\*</sup> Tanks where full sounding depth could not be reached due to obstructions or tankcontours.

#### Informational:

Draft	Ве	fore	At	fter
Forward	m	4.30	m	6.50
Aft	m	5.90	m	8.50
Trim	m	1.60	m	2.00

Signed by: Ship's representative Name: Reno L. De La Raga Rank: Chief Officer

Saybolt representative Daniel Groen Saybolt Inspector

Singapore

ExxonMobil GMTO Heavy Products Brussels

INTV009FIN-2103-0014

12010/00086207.0000/01/I/21 Job No

Report date 09 Mar 2021

Installation Rotterdam, Netherlands, Vopak Terminal Europoort

Vessel **SONGA JADE Product** FO HS >1.035SG

Outturn date: 07 Mar 2021



### **Reference Height Report (additional)**

Ма	nual Tank He	eights in cm	Auto Gauge Heights in cm					
Calibrated Found F		d Reference	Gauging	Stow	Stowed Height		Auto	
Ref.Height	Before	After	Location	Calibrated	Observed	Gauge	Gauge	
12,130	12,130	12,130	Center			3,930	3,857	
12,120	12,120	12,120	Center			3,930	4,003	
12,120	12,120	12,120	Center			3,940	3,867	
12,140	12,140	12,140	Center			3,950	4,003	
12,130	12,130	12,130	Center			4,090	4,013	
12,140	12,140	12,140	Center			4,190	4,267	
	Calibrated Ref.Height 12,130 12,120 12,120 12,140 12,130	Calibrated         Four           Ref.Height         Before           12,130         12,130           12,120         12,120           12,120         12,120           12,140         12,140           12,130         12,130	Ref.Height         Before         After           12,130         12,130         12,130           12,120         12,120         12,120           12,120         12,120         12,120           12,140         12,140         12,140           12,130         12,130         12,130	Calibrated         Found Reference         Gauging           Ref.Height         Before         After         Location           12,130         12,130         12,130         Center           12,120         12,120         12,120         Center           12,120         12,120         12,120         Center           12,140         12,140         12,140         Center           12,130         12,130         12,130         Center	Calibrated         Found Reference         Gauging         Stow           Ref.Height         Before         After         Location         Calibrated           12,130         12,130         12,130         Center           12,120         12,120         12,120         Center           12,120         12,120         Center           12,140         12,140         Center           12,130         12,130         Center	Calibrated         Found Reference         Gauging         Stowed Height           Ref.Height         Before         After         Location         Calibrated         Observed           12,130         12,130         12,130         Center           12,120         12,120         12,120         Center           12,120         12,120         Center           12,140         12,140         Center           12,130         12,130         Center	Calibrated Ref.Height         Found Reference Ref.Height         Gauging Stowed Height         Manual Manual Manual Ref.Height           12,130         12,130         12,130         Center         3,930           12,120         12,120         12,120         Center         3,930           12,120         12,120         12,120         Center         3,940           12,140         12,140         12,140         Center         3,950           12,130         12,130         12,130         Center         4,090	

<sup>\*</sup> Tanks where full sounding depth could not be reached due to obstructions or tankcontours.

#### Informational:

Draft	Before		At	fter
Forward	m	4.30	m	6.50
Aft	m	5.90	m	8.50
Trim	m	1.60	m	2.00

Signed by: Ship's representative Name: Reno L. De La Raga Rank: Chief Officer

Saybolt representative Daniel Groen Saybolt Inspector

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Singapore

ExxonMobil GMTO Heavy Products Brussels

INTV009FIN-2103-0014

12010/00086207.0000/01/I/21 Job No

Report date 09 Mar 2021

Installation Rotterdam, Netherlands, Vopak Terminal Europoort

Vessel **SONGA JADE** 

**Product** BH - LCO PJG, FO HS >1.035SG

Outturn date: 07 Mar 2021 **Idle Cargo Tank Report** 

Tank / Compartment		Before			After	
	Cargo type	Volu	ıme ( Liters )	Cargo type	\	/olume ( Liters )
P. Slop	Oil		148100	Oil		Dip = nil
	Water		2000	Water		Dip = nil
S. Slop	Dip = nil			Dip = nil		

Tanks used by ship for previous ballast voyage:

#### Remarks:

De-slopping into barge Denver prior discharge operation

Signed by: Ship's representative Name: Reno L. De La Raga Rank: Chief Officer

Saybolt representative Daniel Groen Saybolt Inspector

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INTV009FIN-2103-0014

12010/00086207.0000/01/I/21 Job No

Report date 09 Mar 2021

Installation Rotterdam, Netherlands, Vopak Terminal Europoort

Vessel **SONGA JADE** FO HS >1.035SG **Product** 

Outturn date: 07 Mar 2021 **Line Displacement Report** 

Mineral

On your request a line displacement was carried out before discharge of the above mentioned vessel, in order to check the condition of the shoreline, and we report as follows:

Capacity of shoreline from tankside to ships 135262 litres manifold Shore tank(s) used 1062 Tanks Dens.15°C Vac 1.0160 1.0160 Shore line(s) used VP.4 line Shore line Dens.15°C Vac 1.0180 Ship tank(s) used P/S.3,4,7 Ships Dens.15°C Vac 0.9945

#### **Shore Line Displacement Comparison**

			Observed Volume	Temperature	Standard Volume
			Liters	°C	Liters
Sho	re				
Α	Shore tank 1062 quantity before		3,187,555	44.4	3,125,366
В	Shore tank 1062 quantity after		3,697,695	45.0	3,624,074
С	Shore tank difference	(B-A)	510,140		498,708
D	Shore tank quantity before		0		
Е	Shore tank quantity after				
F	Shore tank difference	(E-D)	0		
G	Total shore difference	(C+F)	510,140		498,708
Vess	sel				
K	Ship tanks quantity before		5,488,459	59.76	5,320,457
L	Ship tanks quantity after		4,988,459	59.76	4,835,762
М	Ships difference	(K-L)	500,000		484,695
Ν	Ship line quantity				
0	Difference including Ship line	(M-N)	500,000		484,695
Tota	ls				
Diffe	rence Ship vs Shore	(O-G)	Δ Quantity	Δ%	
Obse	erved Volume	Liters	10,140	1.99	
Stan	dard Volume	Liters	14,013	2.81	

Signed by: Ship's representative Shore representative Saybolt representative

Name: Reno L. De La Raga Jeroen Hoek Rank: Chief Officer Loading Master Saybolt Inspector

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ExxonMobil GMTO Heavy Products Brussels

INTV009FIN-2103-0014

12010/00086207.0000/01/I/21 Job No

Report date 09 Mar 2021

Installation Rotterdam, Netherlands, Vopak Terminal Europoort

Vessel **SONGA JADE** 

BH - LCO PJG, FO HS >1.035SG **Product** 

Outturn date: 07 Mar 2021 **Bunker Report Fuel Oil** 

Main engine type: STX-MAN B&W 8S35MC-Mk7 8cyl5920 kW max 173rpm

Daily consumption at sea, speed MT Last port: in port (loading): MT Departure date: in port (discharge): Departure Fuel Oil MT: MΤ at anchor: MT

**Arrival bunkers** 

Date and time of measurements 06 Mar 2021 05:15 **Draft Forward** 8.80 m Draft Aft Gauges are corrected by trim No m 8.80 Laboratory analysis carried out? Trim: No m nil

Tank	Ullage	% LEL	Observed	Temp.	VCF	GSV	Dens 15°C	Metric Tons
	cm		Liters	°C	54B	liters 15°C		Vac
P.LS. Storage	732		1,800	40	0.98095	1,766	0.9123	1.611
LS Service	Gauge		4,400	38	0.98188	4,320	0.8890	3.840
LS Settling	Gauge		2,600	40	0.98030	2,549	0.8890	2.266
Service	Gauge		4,000	54	0.96937	3,877	0.8932	3.463
Settling	Gauge		500	40	0.08042	490	0.8032	0.438

**Departure Bunkers** 

Date and time of measurement 07 Mar 2021 20:00 **Draft Forward** m 6.50 Gauges are corrected by trim? Draft Aft m 8.50 Laboratory analysis carried out? No Trim 2.00

Tank	Ullage	% LEL	Observed	Temp.	VCF	GSV	Dens 15°C	<b>Metric Tons</b>
	cm		Liters	°C	54B	liters 15°C		Vac
P.LS. Storage			1,800	40	0.98095	1,766	0.9123	1.611
LS Service	Gauge		4,400	38	0.98188	4,320	0.8890	3.840
LS Settling	Gauge		2,600	40	0.98030	2,549	0.8890	2.266
Service	Gauge		4,000	54	0.96937	3,877	0.8932	3.463
Settling	Gauge		500	40	0.98042	490	0.8932	0.438

Totals					
	Arrival	Departure	Difference	Bunkers Loaded this port	
GSV liters 15°C	13,002	13,002		GSV liters 15°C	
Metric Tons Vac	11.618	11.618		Metric Tons Vac H.F.O.	
Dens 15°C	0.8936	0.8936		Dens 15°C	

Signed by: Ship's representative

Name: Arturs Plirums Rank: Chief Engineer Saybolt representative Daniel Groen Saybolt Inspector

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ExxonMobil GMTO Heavy Products Brussels

INTV009FIN-2103-0014

Job No 12010/00086207.0000/01/I/21

Report date 09 Mar 2021

Installation Rotterdam, Netherlands, Vopak Terminal Europoort

Vessel SONGA JADE

Product BH - LCO PJG, FO HS >1.035SG

Outturn date: 07 Mar 2021 Bunker Report Marine Diesel Oil

Main engine type: STX-MAN B&W 8S35MC-Mk7 8cyl5920 kW max 173rpm

Daily consumption at sea, speed MT Last port:
in port (loading): MT Departure date:
in port (discharge): MT Departure Marine Diesel Oil MT:
at anchor: MT

**Arrival bunkers** 

Date and time of measurements06 Mar 2021 05:15Draft Forwardm8.80Gauges are corrected by trimNoDraft Aftm8.80Laboratory analysis carried out?NoTrim:mnil

Tank	Ullage	% LEL	Observed	Temp.	VCF	GSV	Dens 15°C	Metric Tons
	cm		Liters	°C	54B	liters 15°C		Vac
P. Storage	749		240,600	30	0.98804	237,722	0.8797	209.124
S. Storage	1,304		53,500	40	0.97969	52,413	0.8687	45.531
Storage	1,070		320	20	0.99595	319	0.8667	0.276
Settling	Gauge		8,100	30	0.98781	8,001	0.8667	6.934
Service	Gauge		17,350	36	0.98291	17,053	0.8667	14.780
Overflow	349		1 800	14	1 00081	1 801	0.8667	1 561

**Departure Bunkers** 

Date and time of measurementDraft Forwardm6.50Gauges are corrected by trim?NoDraft Aftm8.50Laboratory analysis carried out?NoTrimm2.00

Tank	Ullage	% LEL	Observed	Temp.	VCF	GSV	Dens 15°C	Metric Tons
	cm		Liters	°C	54B	liters 15°C		Vac
P. Storge	749		240,600	30	0.98804	237,722	0.8797	209.124
S. Storage	1,368		34,100	40	0.97969	33,407	0.8687	29.021
Storage	1,070		320	20	0.99595	319	0.8667	0.276
Settling	Gauge		10,200	30	0.98781	10,076	0.8667	8.733
Service	Gauge		17,240	36	0.98291	16,945	0.8667	14.686
Overflow	343		2,270	14	1.00081	2,272	0.8667	1.969

TOtals				
	Arrival	Departure	Difference	<b>Bunkers Loaded this port</b>
GSV liters 15°C	317,309	300,741	16,56	3 GSV liters 15°C
Metric Tons Vac	278.206	263.809	14.39	7 Metric Tons Vac M.D.O.
Dens 15°C	0.8768	0.8772		Dens 15°C

Signed by: Ship's representative

Name: Arturs Plirums
Rank: Chief Engineer

Saybolt representative Daniel Groen

Saybolt Inspector

Date: 09 Mar 2021 21:48 Page 21 of 22



Singapore

ExxonMobil GMTO Heavy Products Brussels

INTV009FIN-2103-0014

Job No 12010/00086207.0000/01/I/21

Report date 09 Mar 2021

Installation Rotterdam, Netherlands, Vopak Terminal Europoort

Vessel SONGA JADE

Product BH - LCO PJG, FO HS >1.035SG

Outturn date: 07 Mar 2021 Sample Report

Grade	Description	Sealed	Distribution	Amount	Volume
BH - LCO PJG	Spot sample from ship's tanks before discharge	Open	Retain	8	8 liters
BH - LCO PJG	Loadport samples received	SGS2100229	PJ Retain	4	2 liters
FO HS >1.035SG	Spot sample from ship's tanks before discharge	Open	Retain	6	1 liters
FO HS >1.035SG	Loadport samples received	SGS2100229	PJ Retain	4	2 liters
BH - LCO PJG	Multiple tank composite sample before discharge	Open	Retain	2	5 liters
FO HS >1.035SG	Multiple tank composite sample before discharge	Open	Retain	2	5 liters
FO HS >1.035SG					

Total Samples 26

Vessel's samples were taken using vessel's closed sampling system.

Information		
Samples drawn by	Saybolt Inspector	
Shoretank sampling location	Not applicable	
Type / condition of sampling containers	Clean glass bottles	
Loadport samples delivered by	Vessel	
received by	Saybolt inspector	
Loadport sample seal numbers	SGS2100229PJ	

#### Remarks:

Samples retained by Saybolt will be held for 90 days (unless otherwise specified) at the end of which they shall be disposed of.

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