

INTERTANKO Standard Gas Form - LPG

1. GENREAL INFORMATION					
1.1	Vessels Name (IMO number):	Clipper Star (9247807)			
1.2	Flag/Port of Registry:	Norway - STAVANGER			
1.3	Date delivered/Builder:	26.03.2003 / KAWASAKI SAKIDE SHIPYARD			
1.4	Hull Type:	Double Bottom			
1.5	Call sign/MMSI:	LAWXS / MMSI 258 779 000			
1.6	Vessels contact:	+44 207 858 5763/4 +870 773 156 003 master.clipper.star@solvangship.no			
Classification					
1.7	Classification society:	DNV			
1.8	Class notation:	+1A1 Tanker for Liquefied Gas EO PLUS-1 TMON NAUTICUS(Newbuilding)			
1.9	Previous Classification Society (if applicable) / Date of Classification Society Change	N/A			
1.10	EEDI Rating:	Exempted under Reg. 20.1			
1.11	Does the ship have a Condition Assessment Programme (CAP) rating? What is the latest CAP rating (if applicable):	Yes (1)			
Ownership and Operation / QI					
1.12	Registered Owner:	CLIPPER SHIPPING AS C/O Solvang ASA Strandkaien, 36 N-4005 Stavanger Norway Tel: (+47) 51 84 84 00 Telex: Not Applicable Email: maritime.vetting@solvangship.no			
1.13	Technical Operator:	Solvang ASA Strandkaien, 36 N-4005 Stavanger Norway Tel: (+47) 51 84 84 00 Telex: Not Applicable Email: maritime.vetting@solvangship.no Company IMO#: 1242256			
1.14	Commercial Operator:	Solvang ASA Haakon VII's gt 6 N-0161 Oslo Norway Tel: +47 22471950 Email: operation@solvangship.no			
1.15	Qualified Individual:	Hudson Marine Management Services Ferry Terminal Building, Suite 300 2 Aquarium Drive Camden, NJ 08103 USA Tel: (+1) 856-342 7500 Fax: (+1) 856-342 8888 Telex: N/A Email: reporting@hmms-usa.com Web: http://www.manta.com/c/mr07n8g/hudson-marine-manag			
Insurance					
1.16	P & I Club - Full style:	Gard P&I (Bermuda) Ltd. P.O. Box 789 Stoa, N-4809 Arendal, NORWAY Tel: +47 90 52 41 00 Fax: +47 37 02 48 10 Email: companymail@gard.no			
Dimensions					
1.17	Type of vessel (Fully ref/ semi ref/ pressurized):	Fully ref			
1.18	Length overall (LOA):	205,00 Metres			
1.19	Extreme Breadth (Beam):	32,20 Metres			
1.20	Distance bow to bridge:	141,00 Metres			
1.21	Parallel body distances	Lightship	Normal Ballast	Summer Dwt	
	Parallel body length:	69,00 Metres	88,00 Metres	93,00 Metres	
	Aft to mid-point manifold:	49,80 Metres	49,60 Metres	55,00 Metres	
	Fwd to mid-point manifold:	36,20 Metres	38,40 Metres	38,00 Metres	
Tonnages					
1.22	Gross Tonnage:	34970,00 Tonnes			
1.23	Net Tonnage:	11053,00 Tonnes			
1.24	Suez Canal Tonnage Gross(SCGT)/ Net(SCNT):	36774,40	32107,20		
	Panama Canal Net Tonnage:	28963,00			
Loadline information					
1.25	Loadline:	Freeboard	Draft	Deadweight	Displacement
	Summer	8,220 Metres	12,020 Metres	44807 MT	60637 MT
	Winter	8,470 Metres	11,770 Metres	43397 MT	59227 MT
	Tropical	7,970 Metres	12,270 Metres	46219 MT	62049 MT
	Normal Ballast Condition:	13,400 Metres	6,800 Metres	16652 MT	32482 MT
1.26	FWA/TPC at summer draft:	260 mm		56,00 MT	
1.27	Does vessel have multiple SDWT? If so, please enter Maximum deadweight (mt)	No			

2	DEADWEIGHTS *All cargoes listed are as per Certificate of Fitness				
	Cargo	Draft Foré (m)	Draft Aft' (m)	Draft Mean (m)	Corresponding Deadweight (mt)
2.1	Ammonia anhydrous (98,0%)	11,77	11,77	11,77	43405
2.2	Butadiene (98,0%)	11,75	11,75	11,75	43253
2.3	Butane (98,0%)	11,34	11,34	11,34	40937
2.4	Butane-propane (98,0%)	11,13	11,13	11,13	39767
2.5	Butylene (98,0%)	11,56	11,56	11,56	42198
2.6	Propane (98,0%)	11,51	11,51	11,51	41944
2.7	Propylene (98,0%)	11,24	11,24	11,24	40373

3.	CARGO TANK CAPACITIES *All cargoes listed are as per Certificate of Fitness					
		Density	Tank 1 (m3)	Tank 2 (m3)	Tank 3 (m3)	Tank 4 (m3)
3.1	100% Capacity		14413	14843	14845	15241
3.2	98% Capacity		14125	14546	14548	14936
3.3	Ammonia anhydrous	0,680	9604,8	9891,4	9892,7	10156,6
3.4	Butadiene	0,651	9195,2	9469,5	9470,8	9723,5
3.5	Butane	0,573	8093,5	8334,9	8336,1	8558,4
3.6	Butane-propane	0,594	8390,1	8640,4	8641,6	8872,1
3.7	Butylene	0,620	8757,3	9018,6	9019,8	9260,4
3.8	Propane	0,580	8192,3	8436,8	8437,9	8663,0
3.9	Propylene	0,610	8616,1	8873,1	8874,3	9111,1

4.	DECK MACHINERY	
Mooring		
4.1	Number Of Mooring Winches:	Forecast: 3 Maindeck Fwd: 1 Maindeck Aft: 1 Poopdeck: 3
4.2	Mooring lines on drum (Number/Length/Diameter)	Forecast: 6/220,00 m/68,00 Maindeck Fwd: 2/220,00 m/68,00 Maindeck Aft: 2/220,00 m/68,00 Poopdeck: 6/220,00 m/68,00
4.3	Mooring lines (Material)	Forecast: Estalon UV Resistant PP/PES blend Maindeck Fwd: Estalon UV Resistant PP/PES blend Maindeck Aft: Estalon UV Resistant PP/PES blend Poopdeck: Estalon UV Resistant PP/PES blend
4.4	Number of Mooring lines onboard:	28
4.5	Ship design minimum breaking load (mt):	84,0
4.6	Winch Brake holding Capacity (mt):	Forecast: 67,00 Maindeck Fwd: 67,00 Maindeck Aft: 67,00 Poopdeck: 67,00
Lifting Equipment		
4.7	Number of Cranes:	Derricks: 0.00 Tonnes, Cranes: 1 x 7.50 Tonnes 1 Midship, cargo hose handling SWL 7.5t and 2 P/S aft SWL 4 t provision cranes
4.8	SWL Of Cranes(mt):	Derricks: 0.00 Tonnes, Cranes: 1 x 7.50 Tonnes 1 Midship, cargo hose handling SWL 7.5t and 2 P/S aft SWL 4 t provision cranes

5.	MACHINERY AND PROPULSION			
Engines		No	Power (KW)	Make/Type
5.1	Main Engine:	1	11275	Kawasaki-Man B&W 5S60MC-C two stroke cycle
5.2	Auxiliary Engine:	3	1470	STX-MAN-B&W 5L28/32H
5.3	Main Engine - Type of fuel used:	Other (specify)		
5.4	Auxiliary Engine - Type of fuel used:	IFO 380		
Propulsion				
5.5	Propeller number and type:	Fixed		
5.6	Bow Thruster Power (if fitted):	1609,00		
Bunkers				
5.7	Capacity of bunker tanks:	Fuel oil:2350,00 Diesel oil:		
5.8	Ballast Tank Capacity (100%):	349687,2		

6.	CARGO HANDLING			
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Discharging General				
6.1	Number of Cargo Tanks:		4	
6.2	Cargo Pumps:	Type	No Per Tank	Run simultaneously at full capacity
		Centrifugal	2	8
6.3	Number and Capacity of Booster Pumps:		2 - 500 (m3/hour)	
6.4	Max loading rate for homogenous cargo (without vapour return):		4000	
6.5	Max loading rate for homogenous cargo per manifold (without vapour return):		2000	

Unpumpables

6.6	Total Unpumpables:	Tank Number	Unpumpable (m3)
		1	8
		2	8
		3	8
		4	8

Transport and Carriage Conditions

6.7	What is the minimum/maximum permissible tank pressure?	-0,25Kp/Sq. cm	0,41Kp/Sq. cm
6.8	What is the minimum/maximum permissible tank temperature?	-50 °C	N\A
6.9	Does the vessel have a cargo heater? If yes, stat capacity of cargo heater	Yes	
6.10	Number and capacity of Vapouriser	Yes	
6.11	Number and capacity of Cargo Deck Tanks	0	
6.12	IS ESD shore connection available? If yes, state type of connection	Yes	
		If yes, is the ESD system pneumatic?	Yes
		If yes, is the ESD system electrical?	Yes
		If yes, is the ESD system fiber optic?	Yes
6.13	Maximum number of grades that can be loaded/carried/discharged simultaneously with complete segregation	2	
6.14	No. of products that can be conditioned by the reliquefaction plant simultaneously	2	

7. INERT GAS

Main IG Plant

7.1	Inert Gas system fitted:	Yes
7.2	Inert Gas Capacity:	5500,00
7.3	Inert Gas - Lowest dew point achievable:	-40,00

Nitrogen

7.4	N2 Plant fitted:	Yes
7.5	N2 Generating Plant - Lowest dew point achievable:	-40,00

8. RELIQUEFACTION PLANT

8.1	Coolant Type:		
8.2	Manufacturer/type of compressors:	Sulzer	Reciprocating
8.3	Number and capacity of compressors:	4	2000.00 m3/hour
8.4	Are compressors oil free?:	Yes	

Plant Design Conditions

8.5	Design temperature conditions - Air:	45.00 °C
8.6	Design temperature conditions - Sea:	32.00 °C

9. MANIFOLD

9.1	Type of manifold valve:	Butterfly
9.2	Manifold Layout (Fwd to Aft):	Cargo Manifold Dimension B: 8250 Cargo Manifold Dimension C: 3750 Cargo Manifold Dimension D: 1250 Cargo Manifold Dimension E: 1250 Cargo Manifold Dimension F: 3750 Cargo Manifold Dimension G: 5750
9.3	Do manifold arrangements comply with SIGTTO standards?:	Yes
9.4	Liquid manifold size:	356
9.5	Vapour manifold size:	254
9.6	Are local pressure gauges fitted outboard of the manifold valve:	Yes

9.7	Pipe Flange				
	Pipe Flange letter	Duty	Rating (bar)	Size	Raised/Flat face
	A		0.00	0.00	
	B	Fuel Oil	10.00	150.00	Flat Face
	C	Cargo	25.00	356.00	Raised
	D	Vapour	10.00	254.00	Raised
	E	Vapour	10.00	254.00	Raised
	F	Cargo	25.00	356.00	Raised
	G	Fuel Oil	10.00	200.00	Flat Face
H	Other	10.00	150.00	Flat Face	

Dimensions

9.8	Bow to center manifold (BCM)/Stern to center manifold (SCM):	105 Metres	100 Metres		
9.9	Distance manifold to ship side:	3500 mm			
9.10	Height above uppermost continuous deck:	1700 mm			
9.11	Height of the manifold connections above the waterline at light condition:	17630 mm			
9.12	Height of the manifold connections above the waterline at loaded condition:	9916 mm			
9.13	Reducers:	No.	Flange Rating	Size	Length
	ANSI Class 300:	15	25 bar	406 mm	450 mm
	ANSI Class 300 to 150:	8	25 bar	406mm	450 mm
	ANSI Class 150:	10	25 bar	150 mm	450 mm

10.	SHIP TO SHIP TRANSFER	
10.1	Does vessel comply with recommendations contained in OCIMF/ICS Ship To Ship Transfer Guide (Petroleum, Chemicals or Liquidified Gas, as applicable)?	Yes

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