

INTERTANKO Standard Gas Form - LPG

1. GENREAL INFORMATION			
1.1	Vessels Name (IMO number):	Clipper Saturn (9699517)	
1.2	Flag/Port of Registry:	Norway - Stavanger	
1.3	Date delivered/Builder:	01.06.2015 / Hyundai Heavy Industries CO, Ulsan	
1.4	Hull Type:	Double Bottom	
1.5	Call sign/MMSI:	LATW7 / 257695000	
1.6	Vessels contact:	+870 773909675 master.clipper.saturn@solvanship.no	
Classification			
1.7	Classification society:	DNV	
1.8	Class notation:	+1A1, Tanker for Liquefied Gas, Ship type 2G, EO, Nauticus (Newbuilding), PLUS, NAUT-OC, TMON, BIS, BWM-E (s), COAT-PSPC(B)	
1.9	Previous Classification Society (if applicable) / Date of Classification Society Change	N/A	
1.10	EEDI Rating:	6.1702 grams-CO2/tonne-mile	
1.11	Does the ship have a Condition Assessment Programme (CAP) rating? What is the latest CAP rating (if applicable):	No	
Ownership and Operation / QI			
1.12	Registered Owner:	Clipper Shipping AS Strandkaien 36 N-4005 Stavanger Norway Tel: +47 51848400 Fax: N/A Telex: N/A Email: maritime.vetting@solvanship.no Web: www.solvanship.no	
1.13	Technical Operator:	Solvang ASA Strandkaien 36 N-4005 Stavanger Norway Tel: +47 51848400 Fax: N/A Telex: N/A Email: maritime.vetting@solvanship.no Web: www.solvanship.no Company IMO#: 1242256	
1.14	Commercial Operator:	Solvang ASA Haakon VII's gt. 6 P.O.Box 1737 Vika N-0121 Oslo Norway Tel: +47 22471950 Telex: na Email: operation@solvanship.no Web: www.solvanship.no	
1.15	Qualified Individual:	Hudson Marine Management Service Ferry Terminal Building, Suite 300 2 Aquarium Drive, Camden, NJ 08103 Tel: +1 856 342 7500 Fax: +1 856 372 8888 Email: reporting@hudsonmarine.com	
Insurance			
1.16	P & I Club - Full style:	Gard P&I (Bermuda) Ltd. Kittelsbukveien 31 4836 Arendal Norway Tel: +4737019100 Fax: +4737024810 Email: companymail@gard.no Web: www.gard.no	
Dimensions			
1.17	Type of vessel (Fully ref/ semi ref/ pressurized):	Fully ref	
1.18	Length overall (LOA):	199,00 Metres	
1.19	Extreme Breadth (Beam):	33,20 Metres	
1.20	Distance bow to bridge:	132,41 Metres	
1.21	Parallel body distances	Lightship	Normal Ballast
	Parallel body length:	47,00 Metres	74,99 Metres
	Aft to mid-point manifold:	29,40 Metres	42,09 Metres
	Fwd to mid-point manifold:	17,60 Metres	32,90 Metres
			Summer Dwt
			97,55 Metres
			57,95 Metres
			39,60 Metres
Tonnages			
1.22	Gross Tonnage:	37366,00 Tonnes	
1.23	Net Tonnage:	14016,00 Tonnes	
1.24	Suez Canal Tonnage Gross(SCGT)/ Net(SCNT):	33623,00	14016,00
	Panama Canal Net Tonnage:	39045,00	
Loadline information			

1.25	Loadline:	Freeboard	Draft	Deadweight	Displacement
	Summer	5,860 Metres	11,520 Metres	42543 MT	58302 MT
	Winter	6,100 Metres	11,280 Metres	41930 MT	56880 MT
	Tropical	5,620 Metres	11,760 Metres	44727 MT	59677 MT
	Normal Ballast Condition:	10,830 Metres	6,550 Metres	17880 MT	33639 MT
1.26	FWA/TPC at summer draft:			250 mm	58,31 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%)	11,49	11,49	11,49	42500
2.2	Butadiene (98,0%)	11,10	11,10	11,10	40145
2.3	Butane (98,0%)	10,68	10,68	10,68	37650
2.4	Butane-propane (%)				
2.5	Butylene (98,0%)	10,61	10,61	10,61	37276
2.6	Commercial propane (%)				
2.7	Mixed C4 (%)				
2.8	Propane (98,0%)	10,98	10,98	10,98	36568
2.9	Propylene (98,0%)	10,75	10,75	10,75	38084

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		12925	15932	15935	15393
3.2	98% Capacity		12667	15613	15616	15085
3.3	Ammonia anhydrous	0,680	8613,2	10617,1	10619,1	10257,9
3.4	Butadiene	0,651	8245,9	10164,3	10166,2	9820,4
3.5	Butane	0,573	7257,9	8946,5	8948,1	8643,8
3.6	Butane-propane	0,594	7523,9	9274,3	9276,1	8960,6
3.7	Butylene	0,620	7853,2	9680,3	9682,1	9352,8
3.8	Commercial propane	0,493	6244,6	7697,4	7698,8	7437,0
3.9	Mixed C4	0,670	8486,6	10461,0	10462,9	10107,0
3.10	Propane	0,580	7346,6	9055,7	9057,5	8749,4
3.11	Propylene	0,610	7726,6	9524,1	9525,9	9201,9

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/30,00 Maindeck Fwd: 2/220,00 m/30,00 Maindeck Aft: 2/220,00 m/30,00 Poopdeck: 6/220,00 m/30,00			
4.3	Mooring lines (Material)	Forecast: HMPE Maindeck Fwd: HMPE Maindeck Aft: HMPE Poopdeck: HMPE			
4.4	Number of Mooring lines onboard:	20			
4.5	Ship design minimum breaking load (mt):	75,0			
4.6	Winch Brake holding Capacity (mt):	Forecast: 60,00 Maindeck Fwd: 60,00 Maindeck Aft: 60,00 Poopdeck: 60,00			
Lifting Equipment					
4.7	Number of Cranes:	Cranes: 1 x 7.50 Tonnes Crane : Center			
4.8	SWL Of Cranes(mt):	Cranes: 1 x 7.50 Tonnes Crane : Center			

5. MACHINERY AND PROPULSION					
	Engines	No	Power (KW)	Make/Type	
5.1	Main Engine:	1	9350	HYUNDAY - MAN B&W / 5S60ME-C8.2-T-II	
5.2	Auxiliary Engine:	3	1280	HIMSEN 8H21/32	
5.3	Main Engine - Type of fuel used:	HFO			
5.4	Auxiliary Engine - Type of fuel used:	HFO			

Propulsion	
5.5	Propeller number and type: Fixed
5.6	Bow Thruster Power (if fitted): No
Bunkers	
5.7	Capacity of bunker tanks: Fuel oil:1882,10 Diesel oil: 291,10
5.8	Ballast Tank Capacity (100%): 349687,2

6. CARGO HANDLING

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 - 600 (m3/hour)		
6.4	Max loading rate for homogenous cargo (without vapour return):	4800		
6.5	Max loading rate for homogenous cargo per manifold (without vapour return):	2400		

Unpumpables			
6.6	Total Unpumpables:	Tank Number	Unpumpable (m3)
		1	10
		2	10
		3	10
		4	10

Transport and Carriage Conditions			
6.7	What is the minimum/maximum permissible tank pressure?	-0,05Kp/Sq. cm	0,40Kp/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: No
7.5	N2 Generating Plant - Lowest dew point achievable: -40,00

8. RELIQUEFACTION PLANT	
8.1	Coolant Type: Seawater
8.2	Manufacturer/type of compressors: Sulzer & Burckhardt Reciprocating
8.3	Number and capacity of compressors: 4 2574 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 A: 6200 Cargo Manifold Dimension B: 5450 Cargo Manifold Dimension C: 350 Cargo Manifold Dimension D: 250 Cargo Manifold Dimension E: 250 Cargo Manifold Dimension F: 350 Cargo Manifold Dimension G: 5450			
9.3	Do manifold arrangements comply with SIGTTO standards?:	Yes			
9.4	Liquid manifold size:	300			
9.5	Vapour manifold size:	150			
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	Gas Oil	6	100	F
	B	Fuel Oil	6	200	F
	C	Cargo Liquid	25	300	R
	D	Cargo Vapour	18	150	R
	E	Cargo Vapour	18	150	R
	F	Cargo Liquid	25	300	R
	G	Fuel Oil	6	150	F
Dimensions					
9.8	Bow to center manifold (BCM)/Stern to center manifold (SCM):	96 Metres	103 Metres		
9.9	Distance manifold to ship side:	4235 mm			
9.10	Height above uppermost continuous deck:	2089 mm			
9.11	Height of the manifold connections above the waterline at light condition:	19349 mm			
9.12	Height of the manifold connections above the waterline at loaded condition:	11400 mm			
9.13	Reducers:	No.	Flange Rating	Size	Length
	ANSI Class 300:	10	25 bar	510 mm	640 mm
	ANSI Class 300 to 150:	10	25 bar	500mm	600 mm
	ANSI Class 150:	8	25 bar	420 mm	500 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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