

**INTERTANKO Standard Gas Form - LPG**

<b>1. GENREAL INFORMATION</b>			
1.1	Vessels Name (IMO number):	Clipper Quito (9630755)	
1.2	Flag/Port of Registry:	Norway - Stavanger	
1.3	Date delivered/Builder:	26.06.2013 / Hyundai Heavy Industries, Co. Ulsan, Korea	
1.4	Hull Type:	Double Bottom	
1.5	Call sign/MMSI:	LAPW7 / 257928000	
1.6	Vessels contact:	+870773158912 master.clipper.quito@solvanship.no	
<b>Classification</b>			
1.7	Classification society:	DNV	
1.8	Class notation:	+1A1, Tanker for Liquefied Gas, Ship Type 2G(-50C, 620 kg/m <sup>3</sup> , Plus, 0.275 bar), EO, NAUTICUS (Newbuilding), 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:	Built in 2013	
1.11	Does the ship have a Condition Assessment Programme (CAP) rating? What is the latest CAP rating (if applicable):	No	
<b>Ownership and Operation / QI</b>			
1.12	Registered Owner:	Clipper Shipping AS Strandkaien 36, 4005 Stavanger PO Box 90 N-4001Stavanger IMO 6070046 Norway Tel: +4751848400 Fax: N/A Telex: N/A Email: maritime.vetting@solvanship.no Web: www.solvanship.no	
1.13	Technical Operator:	Solvang ASA Strandkaien 36, 4005 Stavanger PO Box 90 N-4001Stavanger Norway Tel: +4751848400 Fax: N/A Telex: N/A Email: maritime.vetting@solvanship.no Web: www.solvanship.no Company IMO#: 1242256	
1.14	Commerical Operator:	Solvang ASA Haakon VII s gt 6, P.O.Box 1737 Vika, N-0121 Oslo, Norway Norway Tel: +4722471950 Fax: +4722471951 Telex: N/A Email: operation@solvanship.no Web: www.solvanship.no	
1.15	Qualified Individual:	Hudson Marine Management Services 4350 Haddonfield rd suit 302 Penncauken New Jersey 08109 USA Tel: 1-8564860800 Fax: +1 856 486 0081 Email: reporting@hmms-usa.com	
<b>Insurance</b>			
1.16	P & I Club - Full style:	Gard P&I (Bermuda) Ltd. Gard P. & I. (Bermuda) Ltd. Norwegian Branch Kittelsbuktveien 31 4836 Arendal Norway Tel: 4790524100 Email: gard@gard.no	
<b>Dimensions</b>			
1.17	Type of vessel (Fully ref/ semi ref/ pressurized):	Fully ref	
1.18	Length overall (LOA):	225,21 Metres	
1.19	Extreme Breadth (Beam):	36,60 Metres	
1.20	Distance bow to bridge:	148,55 Metres	
1.21	Parallel body distances	<b>Lightship</b>	<b>Normal Ballast</b>
	Parallel body length:	87,70 Metres	87,70 Metres
	Aft to mid-point manifold:	46,92 Metres	46,92 Metres
	Fwd to mid-point manifold:	40,81 Metres	40,81 Metres
			<b>Summer Dwt</b>
			101,80 Metres
			60,98 Metres
			40,83 Metres
<b>Tonnages</b>			
1.22	Gross Tonnage:	48051,00 Tonnes	
1.23	Net Tonnage:	18644,00 Tonnes	
1.24	Suez Canal Tonnage Gross(SCGT)/ Net(SCNT):	50613,40	45516,22
	Panama Canal Net Tonnage:	39619,00	
<b>Loadline information</b>			

1.25	Loadline:	<b>Freeboard</b>	<b>Draft</b>	<b>Deadweight</b>	<b>Displacement</b>
	Summer	6,647 Metres	12,022 Metres	55047 MT	73761 MT
	Winter	6,897 Metres	11,772 Metres	53282 MT	71996 MT
	Tropical	6,397 Metres	12,272 Metres	56817 MT	75531 MT
	Normal Ballast Condition:	14,600 Metres	7,600 Metres	25286 MT	44000 MT
1.26	FWA/TPC at summer draft:			261 mm	70,58 MT
1.27	Does vessel have multiple SDWT? If so, please enter Maximum deadweight (mt)			No	

<b>2 DEADWEIGHTS</b> *All cargoes listed are as per Certificate of Fitness					
	<b>Cargo</b>	<b>Draft Foré (m)</b>	<b>Draft Aft' (m)</b>	<b>Draft Mean (m)</b>	<b>Corresponding Deadweight (mt)</b>
2.1	Butane (98,0%)	11,69	12,23	11,96	54842
2.2	Butane-propane (%)				
2.3	Propane (98,0%)	11,29	12,10	11,70	53051
2.4	Propylene (98,0%)	11,65	12,30	11,98	54970

<b>3. CARGO TANK CAPACITIES</b> *All cargoes listed are as per Certificate of Fitness						
		<b>Density</b>	<b>Tank 1 (m3)</b>	<b>Tank 2 (m3)</b>	<b>Tank 3 (m3)</b>	<b>Tank 4 (m3)</b>
3.1	100% Capacity		17994	22547	22547	20978
3.2	98% Capacity		17634	22096	22096	20558
3.3	Butane	0,573	10104,4	12661,0	12661,0	11780,0
3.4	Butane-propane	0,594	10474,7	13125,1	13125,1	12211,7
3.5	Propane	0,580	10227,8	12815,7	12815,7	11923,9
3.6	Propylene	0,610	10756,8	13478,6	13478,6	12540,6

<b>4. DECK MACHINERY</b>	
<b>Mooring</b>	
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: 4/220,00 m/68,00 Maindeck Fwd: 4/220,00 m/64,00 Maindeck Aft: 4/220,00 m/64,00 Poopdeck: 6/220,00 m/68,00
4.3	Mooring lines (Material) Forecast: Mixed polyolefins & HT PES Maindeck Fwd: KARAT MAXI PLUS Maindeck Aft: KARAT MAXI PLUS Poopdeck: Mixed polyolefins & HT PES
4.4	Number of Mooring lines onboard: 24
4.5	Ship design minimum breaking load (mt): 88,0
4.6	Winch Brake holding Capacity (mt): Forecast: 70,40 Maindeck Fwd: 70,40 Maindeck Aft: 70,40 Poopdeck: 70,40
<b>Lifting Equipment</b>	
4.7	Number of Cranes: Cranes: 1 x 10 Tonnes Hose handling crane amidships Provision cranes aft stb/port side NOT CERTIFIED for personnel transfer
4.8	SWL Of Cranes(mt): Cranes: 1 x 10 Tonnes Hose handling crane amidships Provision cranes aft stb/port side NOT CERTIFIED for personnel transfer

<b>5. MACHINERY AND PROPULSION</b>				
<b>Engines</b>		<b>No</b>	<b>Power (KW)</b>	<b>Make/Type</b>
5.1	Main Engine:	1	8365	Hyundai B&W 6S60MC C8.1
5.2	Auxiliary Engine:	3	1280	Hyundai-Himsen 8H21/32
5.3	Main Engine - Type of fuel used:	HFO		
5.4	Auxiliary Engine - Type of fuel used:	600 cSt at 50 deg.C		
<b>Propulsion</b>				
5.5	Propeller number and type:	Fixed		
5.6	Bow Thruster Power (if fitted):	No		
<b>Bunkers</b>				
5.7	Capacity of bunker tanks:	Fuel oil:2755,20 Diesel oil: 287,50		
5.8	Ballast Tank Capacity (100%):	349687,2		

<b>6. CARGO HANDLING</b>	
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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	Rate per pump (m3 per hour)
		Centrifugal	2	8	600 (m3/hour)
6.3	Number and Capacity of Booster Pumps:	2 - 600 (m3/hour)			
6.4	Max loading rate for homogenous cargo (without vapour return):	9600			
6.5	Max loading rate for homogenous cargo per manifold (without vapour return):	4800			
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?	-0,05Kp/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:	5300,00			
7.3	Inert Gas - Lowest dew point achievable:	-40,00			
Nitrogen					
7.4	N2 Plant fitted:				
7.5	N2 Generating Plant - Lowest dew point achievable:				
8. RELIQUEFACTION PLANT					
8.1	Coolant Type:	Propane for Butane blower			
8.2	Manufacturer/type of compressors:	Burckhardt Compression 4K165-3P_1	Reciprocating		
8.3	Number and capacity of compressors:	2	3000.00 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: 5370 Cargo Manifold Dimension C: 3120 Cargo Manifold Dimension D: 870 Cargo Manifold Dimension E: 1380 Cargo Manifold Dimension F: 3630 Cargo Manifold Dimension G: 5880			
9.3	Do manifold arrangements comply with SIGTTO standards?:	Yes			
9.4	Liquid manifold size:	14			
9.5	Vapour manifold size:	10			
9.6	Are local pressure gauges fitted outboard of the manifold valve:	Yes			

9.7	<b>Pipe Flange</b>				
	<b>Pipe Flange letter</b>	<b>Duty</b>	<b>Rating (bar)</b>	<b>Size</b>	<b>Raised/Flat face</b>
	A	Vapour	16	10"	Raised
	B	Liquid	25	14"	Raised
	C	Liquid	25	14"	Raised
	D	Vapour	16	10"	Raised
	E	Vapour	16	10"	Raised
F	Liquid	25	14"	Raised	

**Dimensions**

9.8	Bow to center manifold (BCM)/Stern to center manifold (SCM):	109 Metres	116 Metres		
9.9	Distance manifold to ship side:	4250 mm			
9.10	Height above uppermost continuous deck:	2110 mm			
9.11	Height of the manifold connections above the waterline at light condition:	20790 mm			
9.12	Height of the manifold connections above the waterline at loaded condition:	12290 mm			
9.13	<b>Reducers:</b>	<b>No.</b>	<b>Flange Rating</b>	<b>Size</b>	<b>Length</b>
	ANSI Class 300:	8	25 bar	mm	mm
	ANSI Class 300 to 150:	10	bar	mm	mm
	ANSI Class 150:	8	bar	mm	mm

<b>10.</b>	<b>SHIP TO SHIP TRANSFER</b>	
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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