

**INTERTANKO Standard Gas Form - LPG**

<b>1. GENREAL INFORMATION</b>					
1.1	Vessels Name (IMO number):	Clipper Wilma (9855941)			
1.2	Flag/Port of Registry:	Norway - Stavanger			
1.3	Date delivered/Builder:	31.10.2019 / Hyundai Heavy Industries, Ulsan, South Korea			
1.4	Hull Type:	Double Bottom			
1.5	Call sign/MMSI:	LAGX8 / 257085990			
1.6	Vessels contact:	+870 773 702 012 master.clipper.wilma@solvanship.no			
<b>Classification</b>					
1.7	Classification society:	DNV			
1.8	Class notation:	+1A Tanker for Liquefied Gas, BIS, BWM (T), COAT PSPC (B), E0, LCS, PLUS, TMON (oil lubricated), ER (EGCS Hybrid, SCR)			
1.9	Previous Classification Society (if applicable) / Date of Classification Society Change	N/A			
1.10	EEDI Rating:	5.9			
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:	PARTREDERIET VLGC DA Strandkaien 36 N-4005 Stavanger Norway Tel: +4751848400 Email: maritime.vetting@solvanship.no			
1.13	Technical Operator:	SOLVANG ASA Strandkaien 36 N-4005 Stavanger Norway Tel: +4751848400 Email: maritime.vetting@solvanship.no Company IMO#: 1242256			
1.14	Commercial Operator:	BW LPG POOL PTE LTD 10 PASIR PANJANG ROAD, MAPLETREE BUSINESS CITY #17-02 SINGAPORE 117438 Singapore Tel: +65 67055588 Fax: N/A Email: fleetops@bwlp.com			
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 Web: www.hudsonmarine.com			
<b>Insurance</b>					
1.16	P & I Club - Full style:	Gard P&I (Bermuda) Ltd. Gard P & I (Bermuda) Ltd. Norwegian Branch, Kittelsbuktheien 31 4836, Arendal, Norway Tel: +47 90 52 41 00 (24 Hr.) Fax: +47 37 02 48 10 Email: companymail@gard.no Web: www.gard.no			
<b>Dimensions</b>					
1.17	Type of vessel (Fully ref/ semi ref/ pressurized):	Fully ref			
1.18	Length overall (LOA):	229,96 Metres			
1.19	Extreme Breadth (Beam):	32,25 Metres			
1.20	Distance bow to bridge:	150,91 Metres			
1.21	Parallel body distances	<b>Lightship</b>	<b>Normal Ballast</b>	<b>Summer Dwt</b>	
	Parallel body length:	103,80 Metres	109,96 Metres	126,28 Metres	
	Aft to mid-point manifold:	54,20 Metres	57,56 Metres	73,88 Metres	
	Fwd to mid-point manifold:	49,60 Metres	52,40 Metres	52,40 Metres	
<b>Tonnages</b>					
1.22	Gross Tonnage:	46746,00 Tonnes			
1.23	Net Tonnage:	18398,00 Tonnes			
1.24	Suez Canal Tonnage Gross(SCGT)/ Net(SCNT):	49837,51	43786,33		
	Panama Canal Net Tonnage:	43082,00			
<b>Loadline information</b>					
1.25	Loadline:	<b>Freeboard</b>	<b>Draft</b>	<b>Deadweight</b>	<b>Displacement</b>
	Summer	6,352 Metres	12,120 Metres	51098 MT	69669 MT
	Winter	6,604 Metres	11,868 Metres	49451 MT	68022 MT
	Tropical	6,100 Metres	12,372 Metres	52748 MT	71319 MT
	Normal Ballast Condition:	16,750 Metres	6,450 Metres	15246 MT	33817 MT
1.26	FWA/TPC at summer draft:	266 mm		65,80 MT	
1.27	Does vessel have multiple SDWT? If so, please enter Maximum deadweight (mt)	No			

2	<b>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 (96,0%)	12,10	12,10	12,10	50319
2.2	Butane-propane (%)				
2.3	Commercial Propane (94,0%)	12,10	12,10	12,10	50837
2.4	Propane (94,0%)	12,10	12,10	12,10	50837
2.5	Propylene (89,0%)	12,10	12,10	12,10	50861

3.	<b>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		17250	21122	21126	20566
3.2	98% Capacity		16905	20700	20703	20155
3.3	Butane	0,573	9686,6	11860,8	11863,1	11548,6
3.4	Butane-propane	0,594	10041,6	12295,5	12297,9	11971,9
3.5	Commercial Propane	0,493	8334,2	10204,9	10206,8	9936,3
3.6	Propane	0,580	9804,9	12005,7	12008,0	11689,7
3.7	Propylene	0,610	10312,1	12626,7	12629,1	12294,4

4.	<b>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: 6/220,00 m/35,00 Maindeck Fwd: 2/220,00 m/35,00 Maindeck Aft: 2/220,00 m/35,00 Poopdeck: 6/220,00 m/35,00			
4.3	Mooring lines (Material)	Forecast: HMPE Maindeck Fwd: HMPE Maindeck Aft: HMPE Poopdeck: HMPE			
4.4	Number of Mooring lines onboard:	22			
4.5	Ship design minimum breaking load (mt):	89,1			
4.6	Winch Brake holding Capacity (mt):	Forecast: 89,10 Maindeck Fwd: 89,10 Maindeck Aft: 89,10 Poopdeck: 89,10			
<b>Lifting Equipment</b>					
4.7	Number of Cranes:	Cranes: 1 x 10 Tonnes Center			
4.8	SWL Of Cranes(mt):	Cranes: 1 x 10 Tonnes Center			

5.	<b>MACHINERY AND PROPULSION</b>			
<b>Engines</b>		<b>No</b>	<b>Power (KW)</b>	<b>Make/Type</b>
5.1	Main Engine:	1	11965	Hyundai B&W 6G60ME C9.5 + EGR
5.2	Auxiliary Engine:	3	1280	Himsen 8H21/32 - LP SCR
5.3	Main Engine - Type of fuel used:	HFO		
5.4	Auxiliary Engine - Type of fuel used:	HFO		
<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:2355,00 Diesel oil: 295,50		
5.8	Ballast Tank Capacity (100%):	349687,2		

6.	<b>CARGO HANDLING</b>				
<b>Discharging General</b>					
6.1	Number of Cargo Tanks:	4			
6.2	Cargo Pumps:	<b>Type</b>	<b>No Per Tank</b>	<b>Run simultaneously at full capacity</b>	<b>Rate per pump (m3 per hour)</b>
		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):	4800
6.5	Max loading rate for homogenous cargo per manifold (without vapour return):	2400

#### Unpumpables

6.6	Total Unpumpables:	<b>Tank Number</b>	<b>Unpumpable (m3)</b>
		1	17
		2	18
		3	18
		4	17

#### 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:	Seawater	
8.2	Manufacturer/type of compressors:	Burckhardt Compression	Reciprocating
8.3	Number and capacity of compressors:	3	3026 m3/hour
8.4	Are compressors oil free?:	Yes	

##### Plant Design Conditions

8.5	Design temperature conditions - Air:	50 °C
8.6	Design temperature conditions - Sea:	36 °C

#### 9. MANIFOLD

9.1	Type of manifold valve:	Butterfly				
9.2	Manifold Layout (Fwd to Aft):	Cargo Manifold Dimension B: 350 Cargo Manifold Dimension C: 250 Cargo Manifold Dimension D: 250 Cargo Manifold Dimension E: 350 Cargo Manifold Dimension F: 350 Cargo Manifold Dimension G: 250				
9.3	Do manifold arrangements comply with SIGTTO standards?:	Yes				
9.4	Liquid manifold size:	350				
9.5	Vapour manifold size:	250				
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>
		B	Liquid	25	350	R
		C	Vapour	18	250	R
		D	Vapour	18	250	R
		E	Liquid	25	350	R
		F	Liquid	25	350	R
		G	Vapour	18	250	R

##### Dimensions

9.8	Bow to center manifold (BCM)/Stern to center manifold (SCM):	112 Metres	118 Metres
9.9	Distance manifold to ship side:	4250 mm	

9.10	Height above uppermost continuous deck:			1910 mm	
9.11	Height of the manifold connections above the waterline at light condition:			21045 mm	
9.12	Height of the manifold connections above the waterline at loaded condition:			12650 mm	
9.13	Reducers:	No.	Flange Rating	Size	Length
	ANSI Class 300:	8	25 bar	mm	mm
	ANSI Class 300 to 150:	10	18 bar	mm	mm
	ANSI Class 150:	6	10 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

Revised 2019 (INTERTANKO/Q88.com)

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