

INTERTANKO Standard Gas Form - LPG

1. GENREAL INFORMATION			
1.1	Vessels Name (IMO number):	Clipper Orion (9372420)	
1.2	Flag/Port of Registry:	Norway - Stavanger	
1.3	Date delivered/Builder:	28.05.2008 / Hyundai SHIPYARD	
1.4	Hull Type:	Double Bottom	
1.5	Call sign/MMSI:	LAHX6 / 258641000	
1.6	Vessels contact:	FBB +870 773 234 923 / VSAT +44 2031454152 to 53 clipper.orion@solvangship.no	
Classification			
1.7	Classification society:	DNV	
1.8	Class notation:	+1A1 -TANKER FOR LIQUIFIED GAS, E0, NAUT- OC, BWM-E(s), PLUS-1 , TMON, NAUTICUS (Newbuilding)	
1.9	Previous Classification Society (if applicable) / Date of Classification Society Change	N/A	
1.10	EEDI Rating:	N/A	
1.11	Does the ship have a Condition Assessment Programme (CAP) rating? What is the latest CAP rating (if applicable):	Yes ()	
Ownership and Operation / QI			
1.12	Registered Owner:	Clipper Shipping AS Visit: Strandkaien 36, N-4005, Stavanger, Norway Correspondence: P.O Box 90, N-4001 Stavanger, Norway Norway Tel: +4751848400 Fax: Not Applicable Telex: Not Applicable Email: maritime.vetting@solvangship.no Web: www.solvangship.no	
1.13	Technical Operator:	Solvang ASA Visit: Strandkaien 36, N-4005, Stavanger, Norway Correspondence: P.O Box 90, N-4001 Stavanger, Norway Norway Tel: (+47) 51 84 84 00 Fax: Not Applicable Telex: Not Applicable Email: maritime.vetting@solvangship.no Web: www.solvangship.no Company IMO#: 1242256	
1.14	Commercial Operator:	Solvang ASA Haakon Vilis Gate 6, PO Box 1737, N-0121 Oslo, NORWAY Norway Tel: (+47) 22 47 19 55 Fax: Not Applicable Telex: Not Applicable Email: operation@solvangship.no	
1.15	Qualified Individual:	HMMS - 1st Contact Per W.Christensen Hudson Marine Management Services 4350 Haddonfield Rd., Suite 302 Pennsauken, NJ 08109 USA Tel: +1 856 486 0800 Fax: +1 856 486 0081 Email: reporting@hmms-usa.com	
Insurance			
1.16	P & I Club - Full style:	Gard P&I (Bermuda) Ltd. Gard P & I, (Bermuda) Ltd, Norwegian Branch Kittelsbukveien 31 4836 Arendal Norway Tel: +47 90 52 41 00 Email: MLC@gard.no Web: www.gard.no	
Dimensions			
1.17	Type of vessel (Fully ref/ semi ref/ pressurized):	Fully ref	
1.18	Length overall (LOA):	204,98 Metres	
1.19	Extreme Breadth (Beam):	32,23 Metres	
1.20	Distance bow to bridge:	138,04 Metres	
1.21	Parallel body distances	Lightship	Normal Ballast
	Parallel body length:	Metres	82,00 Metres
	Aft to mid-point manifold:	Metres	43,20 Metres
	Fwd to mid-point manifold:	Metres	38,80 Metres
			Summer Dwt
			100,30 Metres
			54,50 Metres
			45,80 Metres
Tonnages			
1.22	Gross Tonnage:	36459,00 Tonnes	
1.23	Net Tonnage:	10938,00 Tonnes	
1.24	Suez Canal Tonnage Gross(SCGT)/ Net(SCNT):	34288,97	30196,00
	Panama Canal Net Tonnage:	38815,25	
Loadline information			

1.25	Loadline:	Freeboard	Draft	Deadweight	Displacement
	Summer	8,680 Metres	12,120 Metres	43475 MT	59167 MT
	Winter	Metres	Metres	42188 MT	57738 MT
	Tropical	Metres	Metres	MT	MT
	Normal Ballast Condition:	14,100 Metres	6,600 Metres	14864 MT	30555 MT
1.26	FWA/TPC at summer draft:			260 mm	56,85 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%)	11,94	12,27	12,12	43616
2.2	Butadiene (98,0%)	11,49	12,16	11,82	42030
2.3	Butane (98,0%)	10,63	11,90	11,26	39080
2.4	Butane-propane (%)				
2.5	Butylene (98,0%)	10,95	12,04	11,49	40230
2.6	Propane (98,0%)	10,23	11,79	11,01	37710
2.7	Propylene (98,0%)	10,76	11,94	11,35	39450
2.8	VCM (70,0%)	11,93	12,27	12,10	43616

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		13980	15688	15681	15089
3.2	98% Capacity		13700	15374	15367	14787
3.3	Ammonia anhydrous	0,680	9316,3	10454,5	10449,8	10055,3
3.4	Butadiene	0,651	8919,0	10008,6	10004,2	9626,5
3.5	Butane	0,573	7850,3	8809,4	8805,5	8473,1
3.6	Butane-propane	0,594	8138,0	9132,3	9128,2	8783,6
3.7	Butylene	0,620	8494,2	9532,0	9527,8	9168,1
3.8	Propane	0,580	7946,2	8917,1	8913,1	8576,6
3.9	Propylene	0,610	8357,2	9378,3	9374,1	9020,2
3.10	VCM	0,970	9492,4	10652,2	10647,4	10245,4

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/60,00 Maindeck Fwd: 2/220,00 m/60,00 Maindeck Aft: 2/220,00 m/60,00 Poopdeck: 6/220,00 m/60,00			
4.3	Mooring lines (Material)	Forecast: TIMM SIGNAL MASTER Maindeck Fwd: TIMM SIGNAL MASTER Maindeck Aft: TIMM SIGNAL MASTER Poopdeck: TIMM SIGNAL MASTER			
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: 45,00 Maindeck Fwd: 45,00 Maindeck Aft: 45,00 Poopdeck: 45,00			
Lifting Equipment					
4.7	Number of Cranes:	Cranes: 1 x 7.50 Tonnes 1 x 7.5 T Midship Manifold 1 x 4 T Accommodation aft Stb side 1 x 4 T Accommodation aft Port side			
4.8	SWL Of Cranes(mt):	Cranes: 1 x 7.50 Tonnes 1 x 7.5 T Midship Manifold 1 x 4 T Accommodation aft Stb side 1 x 4 T Accommodation aft Port side			

5. MACHINERY AND PROPULSION					
Engines		No	Power (KW)	Make/Type	
5.1	Main Engine:	1	10140	Hyundai B&W	
5.2	Auxiliary Engine:	3	1200	HHI-EES, 8H21/32	
5.3	Main Engine - Type of fuel used:	Other (specify)			
5.4	Auxiliary Engine - Type of fuel used:	VLSFO and LSMGO			
Propulsion					

5.5	Propeller number and type:	None		
5.6	Bow Thruster Power (if fitted):	1609,23		
Bunkers				
5.7	Capacity of bunker tanks:	Fuel oil:2278,00 Diesel oil: 785,00		
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 - 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	17	
		2	18	
		3	18	
		4	17	
Transport and Carriage Conditions				
6.7	What is the minimum/maximum permissible tank pressure?	0,10Kp/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	1 1 Propane: 177,538 2 Ammonia: 208,148 3 Ethylene: 174,1709		
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:	-50,00		
Nitrogen				
7.4	N2 Plant fitted:	Yes		
7.5	N2 Generating Plant - Lowest dew point achievable:	-50.00		
8. RELIQUEFACTION PLANT				
8.1	Coolant Type:	Seawater		
8.2	Manufacturer/type of compressors:	Sulzer	Reciprocating	
8.3	Number and capacity of compressors:	4	2024.00 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 A: 100 Cargo Manifold Dimension B: 200 Cargo Manifold Dimension C: 356 Cargo Manifold Dimension D: 254 Cargo Manifold Dimension E: 254 Cargo Manifold Dimension F: 356 Cargo Manifold Dimension G: 200			
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:	No			
9.7	Pipe Flange				
	Pipe Flange letter	Duty	Rating (bar)	Size	Raised/Flat face
	A		10.00	100.00	Raised
	B	Fuel Oil	10.00	200.00	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
Dimensions					
9.8	Bow to center manifold (BCM)/Stern to center manifold (SCM):	102 Metres	103 Metres		
9.9	Distance manifold to ship side:	3125 mm			
9.10	Height above uppermost continuous deck:	1500 mm			
9.11	Height of the manifold connections above the waterline at light condition:	15370 mm			
9.12	Height of the manifold connections above the waterline at loaded condition:	10200 mm			
9.13	Reducers:	No.	Flange Rating	Size	Length
	ANSI Class 300:	12	25 bar	406 mm	450 mm
	ANSI Class 300 to 150:	4	25 bar	406mm	450 mm
	ANSI Class 150:	8	25 bar	250 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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