

INTERTANKO Standard Gas Form - LPG

1. GENREAL INFORMATION					
1.1	Vessels Name (IMO number):	Clipper Hebe (9358670)			
1.2	Flag/Port of Registry:	Norway - Stavanger			
1.3	Date delivered/Builder:	31.07.2007 / Jos.Meier, Papenburg / Rostock, Germany			
1.4	Hull Type:	Double Bottom			
1.5	Call sign/MMSI:	LAHK6 / 258602000			
1.6	Vessels contact:	+870 773 154 550 / 44 203 154 318 master.clipper.hebe@solvangship.no			
Classification					
1.7	Classification society:	DNV			
1.8	Class notation:	1A1 Tanker for liquefied gas, E0, TMON			
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 Strandkaaien 36 N-4005 Stavanger Norway Tel: +4751848400 Telex: Not Applicable Email: maritime.vetting@solvangship.no Web: www.solvangship.no			
1.13	Technical Operator:	SOLVANG ASA Strandkaaien 36 N-4005 Stavanger Norway Tel: +4751848400 Telex: Not Applicable Email: maritime.vetting@solvangship.no Web: www.solvangship.no Company IMO#: 4101300			
1.14	Commerical Operator:	Solvang ASA Haakon Vils gt. 6 P.O.Box 1737 Vika N-0121 Oslo Norway VAT No 992 197 994 Norway Tel: +47 22471950 Email: operation@solvangship.no Web: solvangship.no			
1.15	Qualified Individual:	Hudson Marine Ferry Terminal Building Suite 300/2 Aquarium Drive / Camden New Jersey 081023 USA Tel: +18563427500 Fax: +18563428888 Email: info@hudsonmarine.com			
Insurance					
1.16	P & I Club - Full style:	Gard P&I (Bermuda) Ltd. Trott & Duncan Building 17A Brunswick street Hamilton HM10 Bermuda			
Dimensions					
1.17	Type of vessel (Fully ref/ semi ref/ pressurized):	Semi ref			
1.18	Length overall (LOA):	154,90 Metres			
1.19	Extreme Breadth (Beam):	22,70 Metres			
1.20	Distance bow to bridge:	105,40 Metres			
1.21	Parallel body distances	Lightship	Normal Ballast	Summer Dwt	
	Parallel body length:	23,05 Metres	56,40 Metres	76,05 Metres	
	Aft to mid-point manifold:	12,55 Metres	31,30 Metres	23,05 Metres	
	Fwd to mid-point manifold:	10,50 Metres	25,10 Metres	53,00 Metres	
Tonnages					
1.22	Gross Tonnage:	13893,00 Tonnes			
1.23	Net Tonnage:	4388,00 Tonnes			
1.24	Suez Canal Tonnage Gross(SCGT)/ Net(SCNT):	12482,69	11659,00		
	Panama Canal Net Tonnage:	15047,10			
Loadline information					
1.25	Loadline:	Freeboard	Draft	Deadweighth	Displacement
	Summer	4,400 Metres	10,580 Metres	18826 MT	26378 MT
	Winter	Metres	Metres	18139 MT	25691 MT
	Tropical	Metres	Metres	MT	MT
	Normal Ballast Condition:	9,470 Metres	5,480 Metres	4713 MT	12264 MT
1.26	FWA/TPC at summer draft:	233 mm		30,00 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	Acetaldehyde (97,0%)	9,28	9,36	9,32	15101
2.2	Ammonia anhydrous (98,0%)	8,71	9,17	8,94	14039
2.3	Butadiene (98,0%)	8,44	8,61	8,79	13093
2.4	Butane (98,0%)	8,55	8,29	8,03	12208
2.5	Butane-propane (%)				
2.6	Butylene (98,0%)	8,15	8,62	8,39	12475
2.7	Commercial Propane (98,0%)	8,25	8,67	8,46	12687
2.8	Diethyl Ether (98,0%)	8,67	8,91	8,79	13604
2.9	Dimethylamine (98,0%)	8,48	8,80	8,64	13184
2.10	Ethane (98,0%)	7,52	8,26	7,89	11116
2.11	Ethyl Chloride (%)				
2.12	Ethylene (98,0%)	7,77	9,23	8,50	12851
2.13	Etylene/Propylene Oxide (%)				
2.14	Isoprene (98,0%)	8,63	8,88	8,75	13503
2.15	Isopropylamine (98,0%)	8,55	8,84	8,69	13335
2.16	Methyl Chloride (93,7%)	9,73	10,04	9,89	16788
2.17	Mixed C4 (%)				
2.18	Monoethylamine (%)				
2.19	Pentane (%)				
2.20	Propane (98,0%)	8,22	8,66	8,44	12622
2.21	Propylene (98,0%)	7,97	8,52	8,25	12091
2.22	Propylene Oxide (%)				
2.23	VCM (70,0%)	8,66	8,90	8,78	13587
2.24	Vinyl Ethyl Ether (97,7%)	9,22	9,25	9,23	14854

3. CARGO TANK CAPACITIES *All cargoes listed are as per Certificate of Fitness					
		Density	Tank 1 (m3)	Tank 2 (m3)	Tank 3 (m3)
3.1	100% Capacity		5517	5607	6004
3.2	98% Capacity		5407	5495	5884
3.3	Acetaldehyde	0,780	4217,2	4286,0	4589,5
3.4	Ammonia anhydrous	0,680	3676,5	3736,5	4001,1
3.5	Butadiene	0,651	3519,7	3577,2	3830,4
3.6	Butane	0,573	3098,0	3148,6	3371,5
3.7	Butane-propane	0,594	3211,6	3263,9	3495,0
3.8	Butylene	0,620	3352,1	3406,8	3648,0
3.9	Commercial Propane	0,493	2665,5	2709,0	2900,8
3.10	Diethyl Ether	0,713	3854,9	3917,8	4195,2
3.11	Dimethylamine	0,670	3622,5	3681,6	3942,2
3.12	Ethane	0,544	2941,2	2989,2	3200,9
3.13	Ethyl Chloride	0,920	4974,1	5055,3	5413,2
3.14	Ethylene	0,569	3076,4	3126,6	3348,0
3.15	Etylene/Propylene Oxide	0,830	4487,5	4560,7	4883,7
3.16	Isoprene	0,681	3681,9	3742,0	4006,9
3.17	Isopropylamine	0,722	3903,6	3967,3	4248,2
3.18	Methyl Chloride	0,915	4947,1	5027,8	5383,8
3.19	Mixed C4	0,670	3622,5	3681,6	3942,2
3.20	Monoethylamine	0,689	3725,2	3786,0	4054,0
3.21	Pentane	0,626	3384,6	3439,8	3683,3
3.22	Propane	0,580	3135,9	3187,0	3412,7
3.23	Propylene	0,610	3298,1	3351,9	3589,2
3.24	Propylene Oxide	0,830	4487,5	4560,7	4883,7
3.25	VCM	0,970	3746,0	3807,2	4076,7
3.26	Vinyl Ethyl Ether	0,759	4103,7	4170,6	4465,9

4. DECK MACHINERY		
Mooring		
4.1	Number Of Mooring Winches:	Forecast: 2 Maindeck Fwd: 1 Poopdeck: 2

4.2	Mooring lines on drum (Number/Length/Diameter)	Forecast: 4/220,00 m/48,00 Maindeck Fwd: 2/220,00 m/48,00 Maindeck Aft: 2/220,00 m/48,00 Poopdeck: 4/220,00 m/48,00
4.3	Mooring lines (Material)	Forecast: B5 Yarn and Polyester Maindeck Fwd: B5 Yarn and Polyester Maindeck Aft: B5 Yarn and Polyester Poopdeck: B5 Yarn and Polyester
4.4	Number of Mooring lines onboard:	18
4.5	Ship design minimum breaking load (mt):	45,9
4.6	Winch Brake holding Capacity (mt):	Forecast: 36,70 Maindeck Fwd: 36,70 Poopdeck: 36,70

Lifting Equipment

4.7	Number of Cranes:	Cranes: 2 x 5.00 Tonnes Midship and Poop-deck
4.8	SWL Of Cranes(mt):	Cranes: 2 x 5.00 Tonnes Midship and Poop-deck

5. MACHINERY AND PROPULSION

Engines		No	Power (KW)	Make/Type
5.1	Main Engine:	1	8262	Wartsila 6 RT Flex 50
5.2	Auxiliary Engine:	3	1025	Wartsila 975W 6L 20D2
5.3	Main Engine - Type of fuel used:	HFO		
5.4	Auxiliary Engine - Type of fuel used:	IFO 380		

Propulsion

5.5	Propeller number and type:	Controllable
5.6	Bow Thruster Power (if fitted):	1200,00

Bunkers

5.7	Capacity of bunker tanks:	Fuel oil:1400,50 Diesel oil: 0,00
5.8	Ballast Tank Capacity (100%):	349687,2

6. CARGO HANDLING

Discharging General

6.1	Number of Cargo Tanks:	3			
6.2	Cargo Pumps:	Type	No Per Tank	Run simultaneously at full capacity	Rate per pump (m3 per hour)
		Centrifugal	2	6	200 (m3/hour)
6.3	Number and Capacity of Booster Pumps:	0 - 300 (m3/hour)			
6.4	Max loading rate for homogenous cargo (without vapour return):	1400			
6.5	Max loading rate for homogenous cargo per manifold (without vapour return):	1400			

Unpumpables

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

Transport and Carriage Conditions

6.7	What is the minimum/maximum permissible tank pressure?	-0,31Kp/Sq. cm	4,89Kp/Sq. cm
6.8	What is the minimum/maximum permissible tank temperature?	-104 °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: 34,8 2 Ammonia: 40,8 3 Ethylene: 34,14	
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
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7.2	Inert Gas Capacity:	810,00
7.3	Inert Gas - Lowest dew point achievable:	-60,00
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 / R404	
8.2	Manufacturer/type of compressors:	Burckhardt (Sulzer)	Other
8.3	Number and capacity of compressors:	4	600.00 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: 2200 Cargo Manifold Dimension B: 3600 Cargo Manifold Dimension C: 6300 Cargo Manifold Dimension D: 10300 Cargo Manifold Dimension E: 1000 Cargo Manifold Dimension F: 2500 Cargo Manifold Dimension G: 4850 Cargo Manifold Dimension H: 5200			
9.3	Do manifold arrangements comply with SIGTTO standards?:	Yes			
9.4	Liquid manifold size:	250			
9.5	Vapour manifold size:	150			
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
	B				Raised
	H	Other			Raised
	C	Cargo	16.00	250.00	Raised
	D	Vapour	3.00	150.00	Raised
	A				Raised
	G	Fuel oil			Raised
	F	Cargo	16.00	200.00	Raised
	E	Vapour	3.00	150.00	Raised

Dimensions					
9.8	Bow to center manifold (BCM)/Stern to center manifold (SCM):	75 Metres	80 Metres		
9.9	Distance manifold to ship side:	3600 mm			
9.10	Height above uppermost continuous deck:	2000 mm			
9.11	Height of the manifold connections above the waterline at light condition:	12160 mm			
9.12	Height of the manifold connections above the waterline at loaded condition:	6384 mm			
9.13	Reducers:	No.	Flange Rating	Size	Length
	ANSI Class 300:	5	18 bar	407 mm	397 mm
	ANSI Class 300 to 150:	10	0 bar	0mm	0 mm
	ANSI Class 150:	0	0 bar	0 mm	0 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 Liquidfied Gas, as applicable)?	Yes

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