

INTERTANKO Standard Gas Form - LPG

1. GENREAL INFORMATION			
1.1	Vessels Name (IMO number):	Clipper Hermes (9378151)	
1.2	Flag/Port of Registry:	Norway - Stavanger	
1.3	Date delivered/Builder:	10.07.2008 / Jos. Meier, Papenburg / Rostock,Germany	
1.4	Hull Type:	Double Bottom	
1.5	Call sign/MMSI:	LAIC 6 / 258645000	
1.6	Vessels contact:	+870 773804679 clipper.hermes@solvangship.no	
Classification			
1.7	Classification society:	DNV	
1.8	Class notation:	+1A1 "Tanker for Liquefied Gas" EO, TMON, Independent Tanks Type C, Type II G	
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 C/O Solvang ASA Strandkaien 36 N-4005 POSTBOKS 90 4001 STAVANGER NORWAY Norway Tel: +4751848400 Telex: Not Applicable Email: maritime.vetting@solvangship.no Web: www.solvangship.no	
1.13	Technical Operator:	SOLVANG ASA Solvang ASA, Strandkaien 36 N-4005 POSTBOKS 90 4001 STAVANGER NORWAY Norway Tel: +4751848400 Telex: 73 319 lpg n Email: maritime.vetting@solvangship.no Web: www.solvangship.no Company IMO#: 1242256	
1.14	Commerial Operator:	Solvang ASA Solvang ASA Haakon VIIs gt. 6 P.O.Box 1737 Vik a N-0121 Oslo VAT No 992 197 994 Norway Tel: +47 22 47 19 50 Email: operation@solvangship.no Web: solvangship.no	
1.15	Qualified Individual:	Hudson Marine Management Services 430 Haddonfield Road, Suite 302 Pennauken, New Jersey 08 102 USA Tel: +1 856 486 0800 Fax: +1 856 486 0081 Telex: N/A Email: hmms@hudsonmarine.com Web: hmms-usa.com	
Insurance			
1.16	P & I Club - Full style:	Gard P&I (Bermuda) Ltd. Kittelsbuktheien 31 NO-4836 Arendal Norway Tel: +47 37019100 Fax: +47 37024810 Email: companymail@gard.no Web: www.gard.no	
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
	Parallel body length:	23,05 Metres	56,40 Metres
	Aft to mid-point manifold:	12,50 Metres	31,30 Metres
	Fwd to mid-point manifold:	10,50 Metres	25,10 Metres
			Summer Dwt
			76,05 Metres
			41,05 Metres
			35,00 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):	12482,70	11672,00
	Panama Canal Net Tonnage:	15047,10	
Loadline information			

1.25	Loadline:	Freeboard	Draft	Deadweight	Displacement
	Summer	4,380 Metres	10,570 Metres	18861 MT	26353 MT
	Winter	4,600 Metres	10,350 Metres	18139 MT	25691 MT
	Tropical	4,160 Metres	10,790 Metres	19469 MT	27020 MT
	Normal Ballast Condition:	9,500 Metres	5,400 Metres	4624 MT	12176 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 (98,0%)	9,38	9,25	9,32	15101
2.2	Ammonia anhydrous (98,0%)	8,59	8,82	8,71	13389
2.3	Butadiene (98,0%)	8,35	8,68	8,52	12852
2.4	Butane (98,0%)	7,98	8,47	8,23	12046
2.5	Butane-propane (%)				
2.6	Butylene (98,0%)	8,14	4,57	8,36	12398
2.7	Diethyl Ether (98,0%)	8,83	8,96	8,90	13909
2.8	Dimethylamine (98,0%)	8,34	8,68	8,51	12835
2.9	Ethane (98,0%)	7,52	8,20	7,86	11055
2.10	Ethyl Chloride (98,0%)	10,43	9,80	10,12	17401
2.11	Ethylene (98,0%)	7,71	8,32	8,02	11475
2.12	Etylene/Propylene Oxide (98,0%)	10,13	9,65	9,89	16747
2.13	Isoprene (98,0%)	8,59	8,82	8,71	13372
2.14	Isopropylamine (98,0%)	8,64	8,85	8,75	13490
2.15	Methyl Chloride (98,0%)	11,02	10,13	10,58	18751
2.16	Mixed C4 (98,0%)	8,35	8,68	8,52	12852
2.17	Monoethylamine (98,0%)	8,64	8,85	8,75	13372
2.18	Pentane (98,0%)	8,16	8,58	8,37	12449
2.19	Propane (98,0%)	7,80	8,37	8,09	11659
2.20	Propylene (98,0%)	8,03	8,50	8,27	12163
2.21	Propylene Oxide (98,0%)	9,95	9,56	9,76	16361
2.22	VCM (70,0%)	10,81	10,00	10,41	18258
2.23	Vinyl Ethyl Ether (98,0%)	9,18	9,14	9,16	14665

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		5511	5614	6006
3.2	98% Capacity		5401	5502	5886
3.3	Acetaldehyde	0,780	4212,6	4291,3	4591,0
3.4	Ammonia anhydrous	0,680	3672,5	3741,2	4002,4
3.5	Butadiene	0,651	3515,9	3581,6	3831,7
3.6	Butane	0,573	3094,6	3152,5	3372,6
3.7	Butane-propane	0,594	3208,1	3268,0	3496,2
3.8	Butylene	0,620	3348,5	3411,1	3649,2
3.9	Diethyl Ether	0,713	3850,8	3922,7	4196,6
3.10	Dimethylamine	0,670	3618,5	3686,2	3943,5
3.11	Ethane	0,544	2938,0	2992,9	3201,9
3.12	Ethyl Chloride	0,920	4968,7	5061,6	5415,0
3.13	Ethylene	0,569	3073,0	3130,5	3349,1
3.14	Etylene/Propylene Oxide	0,830	4482,6	4566,4	4885,3
3.15	Isoprene	0,681	3677,9	3746,7	4008,3
3.16	Isopropylamine	0,722	3899,4	3972,2	4249,6
3.17	Methyl Chloride	0,915	4941,7	5034,1	5385,6
3.18	Mixed C4	0,670	3618,5	3686,2	3943,5
3.19	Monoethylamine	0,689	3721,1	3790,7	4055,4
3.20	Pentane	0,626	3380,9	3444,1	3684,6
3.21	Propane	0,580	3132,5	3191,0	3413,8
3.22	Propylene	0,610	3294,5	3356,0	3590,4
3.23	Propylene Oxide	0,830	4482,6	4566,4	4885,3
3.24	VCM	0,970	3742,0	3811,9	4078,1
3.25	Vinyl Ethyl Ether	0,759	4099,2	4175,8	4467,4

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:	21
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 Center (Cargo hose crane), Starboard (Provision crane)
4.8	SWL Of Cranes(mt):	Cranes: 2 x 5.00 Tonnes Center (Cargo hose crane), Starboard (Provision crane)

5. MACHINERY AND PROPULSION				
Engines		No	Power (KW)	Make/Type
5.1	Main Engine:	1	8262	Wartsila DU-Sulzer 6RT-Flex 50
5.2	Auxiliary Engine:	3	1025	Wartsila W6L20
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):	1203,00		
Bunkers				
5.7	Capacity of bunker tanks:	Fuel oil:1404,30 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:	2 - 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):	1200			
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	4,59Kp/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:	No	
7.2	Inert Gas Capacity:		
7.3	Inert Gas - Lowest dew point achievable:		
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:	R 404A	
8.2	Manufacturer/type of compressors:	Burckhardt (Sulzer)	Reciprocating
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 C: 2500 Cargo Manifold Dimension D: 1000 Cargo Manifold Dimension E: 1000 Cargo Manifold Dimension F: 2500			
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:	Yes			
9.7	Pipe Flange				
	Pipe Flange letter	Duty	Rating (bar)	Size	Raised/Flat face
	C	Cargo	16.00	250.00	Raised Face
	D	Vapour	3.00	150.00	Raised Face
	E	Vapour	3.00	150.00	Raised Face
	F	Cargo	16.00	200.00	Raised Face

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:	2010 mm			
9.11	Height of the manifold connections above the waterline at light condition:	13400 mm			
9.12	Height of the manifold connections above the waterline at loaded condition:	6380 mm			
9.13	Reducers:	No.	Flange Rating	Size	Length
	ANSI Class 300:	16	18 bar	407 mm	397 mm
	ANSI Class 300 to 150:	10	10 bar	390mm	400 mm
	ANSI Class 150:		bar	mm	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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