INTERTANKO Standard Gas Form - LPG

1.	**GENREAL INFORMATION**			
1.1	Vessels Name (IMO number):	Clipper Moon (9253820)		
1.2	Flag/Port of Registry:	Norway - STAVANGER		
1.3	Date delivered/Builder:	04.12.2003 / KAWASAKI SAKAIDE SHIPYARD		
1.4	Hull Type:	Double Bottom		
1.5	Call sign/MMSI:	LAYU5 / 258929000		
1.6	Vessels contact:	Sevsat:+442031454161/62; Fleet BB: +870773265677 master.clipper.moon@solvangship.no		
Classification				
1.7	Classification society:	DNV		
1.8	Class notation:	+1A1 -TANKER FOR LIQUIFIED GAS (-50DEG C 685 KG/M3, 0,275 BAR 2G, E0, NAUTICUS, PLUS-1 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 (1)	
Ownership and Operation / QI				
1.12	Registered Owner:	CLIPPER SHIPPING AS Strandkaien 36 4005 Stavanger Norway Norway Tel: +4751848400 Fax: +4751848411 Telex: Not Applicable Email: maritime.vetting@solvangship.no		
1.13	Technical Operator:	Solvang ASA Strandkaien 36 4005 Stavanger Norway Norway Tel: +47 51848400 Fax: N/A Telex: Not Applicable Email: maritime.vetting@solvangship.no Company IMO#: 1242256		
1.14	Commersial Operator:	Solvang Operation Haakon VII Gate 6 Postboks 1737 N-0121 Oslo, NORWAY Norway Tel: +47 22 47 19 50 Fax: Not Applicable Telex: Not Applicable Email: operation@solvangship.no		
1.15	Qualified Individual:	Hudson Marine Management Services, Inc Hudson Marine Managements 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 Tel: +1 856 342 7500 Fax: +1 856 342 8888 Telex: n/a Email: reporting@hmms-usa.com Web: http://www.manta.com/c/mr07n8g/hudson-marine-manag		
Insurance				
1.16	P & I Club - Full style:	Gard P&I (Bermuda) Ltd. Kittelsbuktveien 31, NO-4836 Arendal, Norway Servicebox 600, NO-4809 Arendal, Norway Tel: Tel: 47 37 01 91 00 Fax: Fax: 4737 02 48 10 Telex: n/a Email: Email: www.gard.no		
Dimensions				
1.17	Type of vessel (Fully ref/ semi ref/ pressurized):	Fully ref		
1.18	Length overall (LOA):	205,00 Metres		
1.19	Extreme Breadth (Beam):	32,20 Metres		
1.20	Distance bow to bridge:	141,00 Metres		
1.21	Parallel body distances	**Lightship**	**Normal Ballast**	**Summer Dwt**
	Parallel body length:	Metres	88,00 Metres	94,10 Metres
	Aft to mid-point manifold:	Metres	55,00 Metres	57,70 Metres
	Fwd to mid-point manifold:	Metres	34,00 Metres	36,40 Metres
Tonnages				
1.22	Gross Tonnage:		35012,00 Tonnes	
1.23	Net Tonnage:		11053,00 Tonnes	
1.24	Suez Canal Tonnage Gross(SCGT)/ Net(SCNT):		36872,31	32205,14
	Panama Canal Net Tonnage:		28998,00	
Loadline information				

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1.25	Loadline:	**Freeboard**	**Draft**	**Deadweigth**	**Displacement**
	Summer	8,216 Metres	12,020 Metres	44822 MT	60681 MT
	Winter	8,466 Metres	11,770 Metres	43408 MT	59267 MT
	Tropical	Metres	Metres	MT	MT
	Normal Ballast Condition:	13,870 Metres	6,360 Metres	14522 MT	30381 MT
1.26	FWA/TPC at summer draft:			267 mm	56,00 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 Deadweigth (mt)**
2.1	Ammonia anhydrous (98,0%)	11,60	11,60	11,60	42372
2.2	Butadiene (98,0%)	11,50	11,50	11,50	41724
2.3	Butane (98,0%)	11,00	11,00	11,00	39125
2.4	Butane-propane (98,0%)	10,80	10,80	10,80	37836
2.5	Butylene (98,0%)	11,35	11,35	11,35	40900
2.6	Propane (98,0%)	11,25	11,25	11,25	40391
2.7	Propylene (98,0%)	10,95	10,95	10,95	38801

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		14444	14862	14848	15231
3.2	98% Capacity		14155	14565	14551	14926
3.3	Ammonia anhydrous	0,680	9625,5	9904,0	9894,7	10149,9
3.4	Butadiene	0,651	9215,0	9481,7	9472,7	9717,1
3.5	Butane	0,573	8110,9	8345,6	8337,7	8552,8
3.6	Butane-propane	0,594	8408,1	8651,5	8643,3	8866,3
3.7	Butylene	0,620	8776,2	9030,2	9021,6	9254,4
3.8	Propane	0,580	8210,0	8447,6	8439,6	8657,3
3.9	Propylene	0,610	8634,6	8884,5	8876,1	9105,1

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/68,00 Maindeck Fwd: 2/220,00 m/68,00 Maindeck Aft: 2/220,00 m/68,00 Poopdeck: 6/220,00 m/68,00
4.3	Mooring lines (Material)	Forecast: KARAT MAXI Maindeck Fwd: KARAT MAXI Maindeck Aft: KARAT MAXI Poopdeck: KARAT MAXI
4.4	Number of Mooring lines onboard:	22
4.5	Ship design minimum breaking load (mt):	84,0
4.6	Winch Brake holding Capacity (mt):	Forecast: 67,00 Maindeck Fwd: 67,00 Maindeck Aft: 67,00 Poopdeck: 67,00
Lifting Equipment		
4.7	Number of Cranes:	Cranes: 3 x 7.5 Tonnes 1 - hose handling crane mid ship-center SWL 7.5T 2 - provisions crane aft - port and stbd SWL 4T
4.8	SWL Of Cranes(mt):	Cranes: 3 x 7.5 Tonnes 1 - hose handling crane mid ship-center SWL 7.5T 2 - provisions crane aft - port and stbd SWL 4T

5.	**MACHINERY AND PROPULSIOUN**			
Engines		**No**	**Power (KW)**	**Make/Type**
5.1	Main Engine:	1	11275	Man B & W 5S60MC-C two stroke
5.2	Auxiliary Engine:	3	3990	STX Man B & W 7L28/32H
5.3	Main Engine - Type of fuel used:	HFO		
5.4	Auxiliary Engine - Type of fuel used:	380 CST		
Propulsion				
5.5	Propeller number and type:	Fixed		
5.6	Bow Thruster Power (if fitted):	1609,00		

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Bunkers

5.7	Capacity of bunker tanks:	Fuel oil:3408,00 Diesel oil: 168,00
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**	**Rate per pump (m3 per hour)**
		Centrifugal	2	8	500 (m3/hour)
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):		4000		

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?	0,00Kp/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 simultaniously 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:	-40,00

Nitrogen

7.4	N2 Plant fitted:	Yes
7.5	N2 Generating Plant - Lowest dew point achievable:	-65.00

8. RELIQUEFACTION PLANT

8.1	Coolant Type:		
8.2	Manufacturer/type of compressors:	Sulzer	Reciprocating
8.3	Number and capacity of compressors:	4	2000 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: 9250 Cargo Manifold Dimension B: 8250 Cargo Manifold Dimension C: 3750 Cargo Manifold Dimension D: 1250 Cargo Manifold Dimension E: 1250 Cargo Manifold Dimension F: 3750 Cargo Manifold Dimension G: 5000 Cargo Manifold Dimension H: 5750
9.3	Do manifold arrangements comply with SIGTTO standards?:	Yes
9.4	Liquid manifold size:	585

9.5	Vapour manifold size:	406
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
A		5.00	228.00	Flat Face
B	Fuel Oil	5.00	343.00	Flat Face
C	Cargo	25.00	585.00	Raised
D	Vapour	16.00	406.00	Raised
E	Vapour	16.00	406.00	Raised
F	Cargo	25.00	585.00	Raised
G		5.00	430.00	Flat Face
H	Fuel Oil	5.00	343.00	Flat Face

Dimensions

9.8	Bow to center manifold (BCM)/Stern to center manifold (SCM):	105 Metres	100 Metres
9.9	Distance manifold to ship side:	3500 mm	
9.10	Height above uppermost continous deck:	1700 mm	
9.11	Height of the manifold connections above the waterline at light condition:	17559 mm	
9.12	Height of the manifold connections above the waterline at loaded condition:	9900 mm	

9.13	Reducers:	No.	Flange Rating	Size	Length
	ANSI Class 300:	18	25 bar	350 mm	600 mm
	ANSI Class 300 to 150:	10	25 bar	350mm	600 mm
	ANSI Class 150:	6	16 bar	250 mm	600 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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