

**INTERTANKO Standard Gas Form – LPG**

<b>1.</b>	<b>GENERAL INFORMATION</b>	
1.1	Vessel's name (IMO number):	Js Cougar (9578048)
1.2	Flag/Port of Registry:	Singapore/Singapore
1.3	Date delivered/Builder:	Jan 09, 2013/Sinopacific Offshore & Engineering, Nantong, China
1.4	Hull Type:	Double Hull
1.5	Call sign/MMSI:	9V9998/566 785 000
1.6	Vessel's contact details (satcom/email):	Tel: +870-773 187 663 / +47 23 67 36 64 Email: js@cougar.evergasships.com
<b>Classification</b>		
1.7	Classification society:	Bureau Veritas
1.8	Class notation:	I - HULL - MACH - Liquefied gas carrier; FLS tanker, Unrestricted navigation, AUT-UMS, SYS-NEQ, MON-SHAFT, BWE, CLEANSHIP, INWATERSURVEY
1.9	Previous Classification Society (if applicable) / Date of Classification Society Change	Germanischer Lloyd   Mar 09, 2016
1.10	EEDI Rating:	20.26
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 - Full style:	Marina Freesia Shipping Pte Ltd c/o Standard Chartered Bank Marina Bay Financial Centre (Tower 1) 8 Marina Boulevard, Level 26 Singapore 018981 Singapore Tel: +49-491-92 88 0 Fax: +49-491-9288 201
1.13	Technical operator - Full style:	Evergas Ship Management Pte. Ltd. 21 Ubi Road 1 #06-01 Singapore 408724 Singapore Tel: +65 6904 1939 Fax: +65 6692 0067 Telex: N/A Email: marine@evergas.net Web: www.evergas.net Company IMO#: 5881733
1.14	Commercial operator - Full style:	Evergas Kalvebod Brygge 39-41, Copenhagen 1560-DK Denmark Tel: +45 3997 0372 Fax: n/a Telex: n/a Email: operation@evergas.net Web: www.evergas.net
1.15	Qualified Individual - Full style:	O'Brien's Response Management 818 Town and Country Blvd., Suite 200 Houston, TX 77024 USA Tel: +1-281-606-4818 (24) Fax: +1-203-857-0428 Email: commandcenter@wittobriens.com Web: www.wittobriens.com
<b>Insurance</b>		
1.16	P & I Club - Full Style:	The Britannia Steam Ship Insurance Association Limited Regis House, 45 King William Str., London EC4R 9AN, UK Tel: +44 20 7407 3588 Fax: +44 20 7403 3942 Web: www.britanniapandi.com
<b>Dimensions</b>		
1.17	Type of vessel (Fully ref / semi ref / pressurized):	Pressurized

1.18	Length overall (LOA):				99.86 Metres
1.19	Extreme breadth (Beam):				17.40 Metres
1.20	Distance bow to bridge:				78.00 Metres
1.21	Parallel body distances		Lightship	Normal Ballast	Summer Dwt
	Parallel body length:		31.90 Metres	42.00 Metres	47.00 Metres
	Aft to mid-point manifold:		26.30 Metres	22.90 Metres	33.30 Metres
	Forward to mid-point manifold:		5.60 Metres	9.50 Metres	13.70 Metres
<b>Tonnages</b>					
1.22	Gross Tonnage:				5,036.00
1.23	Net Tonnage:				1,511.00
1.24	Suez Canal Tonnage - Gross (SCGT)/Net (SCNT):			5,559.00	4,447.00
<b>Loadline Information</b>					
1.25	Loadline	Freeboard	Draft	Deadweight	Displacement
	Summer:	4.652 Metres	7.06 Metres	4,998 Metric Tonnes	8,420 Metric Tonnes
	Winter:	4.652 Metres	7.06 Metres	4,998 Metric Tonnes	8,420 Metric Tonnes
	Tropical:	4.652 Metres	7.06 Metres	4,998 Metric Tonnes	8,420 Metric Tonnes
	Normal Ballast Condition:	6.19 Metres	5.52 Metres	2,835.00 Metric Tonnes	6,277.00 Metric Tonnes
1.26	FWA/TPC at summer draft:			145 Millimetres	14.50 Metric Tonnes
1.27	Does vessel have multiple SDWT? If so, please enter Maximum deadweight (mt)			Yes N/A	

<b>2.</b>	<b>DEADWEIGHTS</b> *All cargoes listed are as per Certificate of Fitness				
	Cargo	Draft Fore' (m)	Draft Aft' (m)	Draft Mean (m)	Corresponding Deadweight (mt)
2.1	Full Cargo (PROPANE) (98%)	6.77	6.84	6.81	4633
2.2	Full Cargo (BUTANE) (98%)	6.97	6.97	6.97	4857
2.3	Full Cargo (BUTADIENE) (98%)	6.75	7.03	6.89	4760
2.4	Full Cargo (PROPYLENE) (98%)	6.68	6.80	6.74	4549
2.5	Full Cargo () (98%)				
2.6	Full Cargo () (98%)				
2.7	Full Cargo () (98%)				
2.8	Full Cargo () (98%)				
2.9	Full Cargo () (98%)				
2.10	Full Cargo () (98%)				
2.11	Full Cargo (Vinyl Chloride Monomer) (70%)	6.26	7.45	6.86	4772

<b>3.</b>	<b>CARGO TANK CAPACITIES</b> *All cargoes listed are as per Certificate of Fitness										
		Density	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6	Tank 7	Tank 8	Total
3.1	Cubic Metre @ 100%	-	1,790.76 Cu. Metres	3,252.34 Cu. Metres							5043.1 Cu. Metres
3.2	Cubic Metre @ 98%	-	1754.94 Cu. Metres	3187.29 Cu. Metres	Cu. Metres	Cu. Metres	Cu. Metres	Cu. Metres	Cu. Metres	Cu. Metres	4,935.90 Cu. Metres
3.3	Cargo 1	0.5075	802 MT	1458 MT							
3.4	Cargo 2	0.579	1016 MT	1845 MT							
3.5	Cargo 3	0.622	1092 MT	1982 MT							
3.6	Cargo 4	0.513	849 MT	1544 MT							
3.7	Cargo 5										
3.8	Cargo 6										
3.9	Cargo 7										
3.10	Cargo 8										
3.11	Cargo 9										
3.12	Cargo 10										

3.13	Vinyl Chloride Monomer (VCM)	0.9123	1206 MT	2193 MT						
3.14	Additional Comments									

<b>4.</b>	<b>DECK MACHINERY</b>									
	<b>Mooring</b>									
4.1	Number Of Mooring Winches:	Forecastle: 2 Main deck fwd: 0 Main deck aft: 0 Poop deck: 2								
4.2	Mooring lines on drum (Number/Length / Diameter)	None								
4.3	Mooring Lines (Material)	Not Applicable								
4.4	Number of Mooring lines onboard:									
4.5	Mooring ropes on drum (Number/Length / Diameter)	Forecastle: 4 / 120.00 Metres / 46.00 Millimetres Poop: 4 / 120.00 Metres / 46.00 Millimetres								
4.6	Mooring ropes (Material)	Forecastle: PP/PE Fwd main deck: Not Applicable Aft main deck: Not Applicable Poop: PP/PE								
4.7	Number of Mooring ropes onboard:									
4.8	Ship design minimum breaking load (mt):	47.60 Metric Tonnes								
4.9	Winch Brake holding Capacity (mt):	33.7 Metric Tonnes								
	<b>Lifting Equipment</b>									
4.10	Number of Cranes:	1								
4.11	SWL Of Cranes(mt):	1.50 Metric Tonnes								

<b>5.</b>	<b>MACHINERY AND PROPULSION</b>			
	Engines	No	Power (KW)	Make/Type
5.1	Main Engine:	1	3,000 Kilowatt	MAN
5.2	Auxiliary Engine:	3	425 Kilowatt	Volvo Penta D16MG
5.3	Main Engine - Type of fuel used:	IFO 380		
5.4	Auxiliary Engine - Type of fuel used:	MGO		
	<b>Propulsion</b>			
5.5	Propeller number and type:	Single, Controllable		
5.6	Bow Thruster Power (if fitted)	Yes		
	<b>Bunkers</b>			
5.7	Capacity of bunker tanks:	Fuel Oil: 556.64 Cu. Metres Diesel Oil: Gas Oil: 131.31 Cu. Metres		
5.8	Ballast Tank Capacity (100%)	1,929.40 Cu. Metres		

<b>6.</b>	<b>CARGO HANDLING</b>				
6.1	Discharging General				
	Number of Cargo tanks: 3				
6.2	Cargo Pumps	Type	No. per tank	Run simultaneously at full capacity	Rate per pump (m3 per hour)
		Deepwell	1	3	200.00 Cu. Metres/Hour
6.3	Number and Capacity of Booster Pumps				,
6.4	Max loading rate for homogenous cargo (without vapour return):			450 Cu. Metres/Hour	
6.5	Max loading rate for homogenous cargo per manifold (without vapour return):			450 Cu. Metres/Hour	
	<b>Unpumpables</b>				

6.6	Total Unpumpables	<b>Tank Number</b>	<b>Capacity (m3)</b>
		1	1970.76
		2	3252.34
<b>Transport and Carriage Conditions</b>			
6.7	What is the minimum/maximum permissible tank pressure?	-0.30 Kp/Sq. Centimetre	18.60 Kp/Sq. Centimetre
6.8	What is the minimum/maximum permissible tank temperature?	-10.00 Degrees Celsius	45 Degrees Celsius
6.9	Does the vessel have a cargo heater? If yes, state capacity of cargo heater	Yes If yes: Max Capacity: 200 Cu. Metres/Hour Min Capacity: 50 Cu. Metres/Hour	
6.10	Number and capacity of Vapouriser	0 <u>Capacity per unit:</u> Ammonia: Nitrogen: Propane:	
6.11	Number and capacity of Cargo Deck Tanks	<u>Capacities:</u> Propane: Butane: Ammonia:	
6.12	IS ESD shore connection available? If yes, state type of connection	Yes , If yes: Pneumatic: No Electrical: Yes Fiber Optic: No	
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	0	

<b>7.</b>	<b>INERT GAS</b>		
	<b>Main IG Plant</b>		
7.1	Inert gas system fitted:	Yes	
7.2	Inert Gas Capacity:		
7.3	Inert Gas – Lowest dew point achievable		
	<b>Nitrogen</b>		
7.4	N2 Plant fitted:	Yes	
7.5	N2 Generating Plant – Lowest dew point achievable	-50 Degrees Celsius	

<b>8.</b>	<b>RELIQUEFACTION PLANT</b>		
8.1	Coolant Type:		
8.2	Manufacturer/type of compressors:	Kohler & Horter (piston compressor)	Other
8.3	Number and capacity of compressors:	1	400.00 Cu. Metres/Hour (per unit)
8.4	Are compressors oil free?:	No	
	<b>Plant Design Conditions</b>		
8.5	Design temperature conditions - Air	45 Degrees Celsius	
8.6	Design temperature conditions - Sea	32 Degrees Celsius	

<b>9.</b>	<b>MANIFOLD</b>		
9.1	Type of manifold valve:	Globe	
9.2	Manifold layout (Fwd to Aft):	L1 - V1 - V2 - L2	
9.3	Do manifold arrangements comply with SIGTTO standards?	Yes	
9.4	Liquid manifold size:	8 & quat ASA 300 lbs	
9.5	Vapour manifold size:	4" ASA 300 lbs	
9.6	Are local pressure gauges fitted outboard of the manifold valve:	Yes	

9.7	<b>Pipe Flange</b>					
	Pipe Flanges	<b>Pipe Flange letter</b>	<b>Duty</b>	<b>Rating (bar)</b>	<b>Size</b>	<b>Raised/Flat face</b>
		DIN	LIQUID	22.5	200	Flat Face
DIN	VAPOUR	22.5	100	Flat Face		
<b>Dimensions</b>						
9.8	Bow to center manifold (BCM)/Stern to center manifold (SCM):		44.90 Metres		55.00 Metres	
9.9	Distance manifold to ship side:		3,100.00 Millimetres			
9.10	Height above uppermost continuous deck:		1,700.00 Millimetres			
9.11	Height of the manifold connections above the waterline at light condition:		8.20 Metres			
9.12	Height of the manifold connections above the waterline at loaded condition:		6.34 Metres			
9.13	Reducers:	No.	Flange Rating	Size	Length	
	ANSI Class 300:	10	25 bar	200 Millimetres	360 Millimetres	
	ANSI Class 300 to 150:	10	25 bar	300 Millimetres	340 Millimetres	
	ANSI Class 150:	0				

<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 Liquefied Gas, as applicable)?	Yes

Revised 2019 ([INTERTANKO/Q88.com](http://www.intertanko.com))

Form completed on <http://www.q88.com/integration.aspx> Please email [support@q88.com](mailto:support@q88.com) an updated copy if this is not the latest version.