

GAS FLAWLESS - FORM C

DESCRIPTION OF THE VESSEL

1. GENERAL

1.1	Builder and Yard	HIGAKI S/Y	
1.2	Hull No.	H/N 595	
	Year built	2007	
1.3	Flag		MALTA
1.4	Signal Letters and Normal Station Watched		9HVB8
1.5	Classification		Lloyds
1.6	I.M.O.Certificate of Fitness		9354222
1.7	USCG Letter of Compliance		NIL

2. DIMENSIONS

2.1	Length overall		99.43 M
2.2	Length between perpendiculars		94.90 M
2.3	Beam (MLD)		19.60 M
2.4	Moulded depth		7.70 M
2.5	Scantling draught (MLD)		abt.5.70m
2.6	LNG loaded draught (MLD)		N/A
2.7	Design Extreme Draught		abt.5.75 m
2.8	Air draught with radar mast folded		26.460m (at full loading condition)
2.9	Height from keel to top of mast		32.160m

3. TONNAGE

3.1	Deadweight tonnage on LNG loaded draught		4954.58T
3.2	Gross registered tonnage		4779.00T
3.3	Net registered tonnage		1695.00T
3.4	Light ship displacement		3054.10T

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3.5	Displacement	8008.60T
3.6	Suez Canal Net Tonnage	4352.64T

4. MACHINERY

4.1	Main Engine type, Make Maximum Power and RPM Grade of Fuel	MAKITA MAN B&W 6L35MC 3,900 KW X 210 min ⁻¹
4.2	Main Boilers Type, Make	1 SET VERTICAL WATER TUBE COMPOSITE BOILER 700 KG/HR OIL BURNING , 450 EXHAUST GAS SIDE
4.3	Maximum evaporation Service evaporation	
4.3	Electrical Generating sets and maximum output per unit	2 SETS OF 360 KW X 1200 min ⁻¹ EACH

Number used at sea

5. SPEED

SERVICE SPEED AT LOADING CONDITION ABOUT 5.30/ 5.70M OF MOUD DRAFT AND CONTINUOUS SERVICE OUTPUT OF MAIN ENGINE WITH 15% SEA MARGINS IS ABOUT 14.50/ 14.30 KNOT.

5.1	Guaranteed trial speed	about 15.50 knot
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6. ENERGY CONSUMPTION

6.1	At guaranteed speed	later
6.2	For Inert Gas Generation	-

7. FRESH WATER CAPACITY AND CONSUMPTION

7.1	Capacity of FW generators	10 t/ day
7.2	Capacity of Tanks	
	Boiler Feed	F.W.T.(General) abt.95 t
	Domestic	F.W.T.(Drinking) abt.105 t

8. BUNKER CAPACITY

Capacity of tanks (95% full)

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- | | | |
|-----|----------------------------|---|
| 8.1 | Fuel Oil (density 0.990) | abt.526 t (560m ³ x 0.95 x 0.99) |
| 8.2 | Diesel Oil (density 0.900) | abt.102 t (120m ³ x 0.95 x 0.99) |

9. CARGO TANKS

- | | | |
|------|--|---|
| 9.1 | Number | Two (2) |
| 9.2 | Type of Construction | Horizontal cylinder with hemispherical end plates |
| 9.3 | Type, Details of Insulation | N/A |
| 9.4 | Minimum Temperature | -10°C |
| 9.5 | 100% capacity at -10°C | |
| | No.1 Tank | 3, 150cbm |
| | No.2 Tank | 3, 150cbm |
| | No.3 Tank | |
| | No.4 Tank | |
| | Total | 6,300cbm |
| 9.6 | Loading/filling restrictions | Less than 98% |
| 9.7 | The vessel's cargo tanks can be cooled down from ambient temperature for initial loading within __ hours. | N/A |
| 9.8 | Cargo Loading Performance. The Vessel is capable of receiving a full cargo (including Slow start and topping up, but excluding cooling of pipes, connecting/disconnecting) in less than __ hours, provided the cargo tanks are properly cooled down and the vapour return line is suitable for the vessel to use the HD compressors. | |
| 9.9 | Maximum filling rate | |
| 9.10 | Relief valve settings | 1.76MpaG(for IGC-Code)
1.27MpaG(for U.S.C.G) |
| 9.11 | Loaded boil-off design rate | The Boil of Rate during the laden voyage shall be equal to or less than ___% of the full loaded cargo per day.N/A |

10. CARGO PUMPS

- | | | |
|------|-----------------|--|
| 10.1 | Number per tank | One (1) |
| 10.2 | Type and Maker | Vertical turbine (deep well pump)
Hamworthy Svanehoj A/S |

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- 10.3 Rated capacity of each 400/200 m³/h × 110/136m
(density 0.657/0.949)
- 10.4 Cargo Discharging Performance. The vessel is capable of discharging a full cargo of LNG through 3 liquid arms in less than __ hours (including slow start and rate down, exclusive of cooling of pipes, connecting/disconnecting and stripping) under a maximum back pressure of 4.2 bar g of LNG at the manifold discharge flange (after ships 60/20 mesh strainers) at the half cargo tank level in the tank with a specific gravity of 0.5 and conical strainer on line, using all __ cargo pumps simultaneously with vapour connection to shore. If a Vapour connection is not supplied the vessel should be able to still comply with the above statement generating return vapour using the cargo vaporiser.

11. SPRAY PUMPS

- 11.1 Number per Tank 1 x 2
- 11.2 Type and Make CENTRIFUGAL PUMP EMC 250MD TAIKO
KIKAI INDUSTRIES x 2
- 11.3 Rated capacity of each pump 400M3/H

12. CARGO INSTRUMENTATION

- 12.1 Number and type of main level gauges and accuracy One each Cargo Tank
Float type level gauge
± 10mm
- 12.2 Number and type of back-up level gauges and accuracy. One each Cargo Tank
Float Type level gauge
± 10mm
- 12.3 Number of temperature Sensors in each tank and 3 in each Tank
- 12.4 Position of temperature sensors within cargo tanks Bottom 100mm
Mid 5,820mm
Top 11,200mm
- 12.5 Number and type of pressure sensors and accuracy One each Cargo Tank dome
Water Proof Type
± 1.5%

13. INERT GAS GENERATION

- 13.1 Type and make of equipment Hollow Fiber Membranes Type and Uniter
making
- 13.2 Capacity 185 Nm³/h
- 13.3 Quality of Gas 95% of N₂

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14. NITROGEN STORAGE

- | | | |
|------|--------------------------|-----|
| 14.1 | Consumption | N/A |
| 14.2 | Tank Capacity & Pressure | N/A |

15. BALLAST

- | | | |
|------|---|--|
| 15.1 | Tank capacity | 2185.12 M3 |
| 15.2 | Number and rating of ballast pumps | one(1) set and rate as 180/ 50 m ³ /h x 0.2/ 0.74 Mpa |
| 15.3 | The Vessel is capable of loading/discharging ballast concurrent with cargo operations | YES |

16. GAS COMPRESSORS

- | | |
|------|-----------|
| 16.1 | High Duty |
| 16.2 | Low Duty |

17. DECK MACHINERY

- | | | |
|------|-----------------------|--|
| 17.1 | Winches | Electro-hydraulic open gear type 114.7 KN x 9m/ min x 2 sets |
| | Type | |
| 17.2 | Size of Ropes | 60mm dia x 180m length (Polypropylene) |
| 17.3 | Derricks, Cranes etc. | Hose handling crane 4t x 13m/r x 1set |

18. NAVIGATION AND RADIO

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|------|-----------------|--|
| 18.1 | Navigation Aids | Gyro-compass and steering system control with auto pilot, Radar, Echo Sounder, Wind Direction and Speed meter, ECDI |
| 18.2 | Radio Equipment | International UHF radio telephone, Two way radio telephone, Radar transponder, 406 MHz satellite RPIRB, Inmarsat-C, Inmarsat-F (F77 & F33) |

19. CREW MEMBERS

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|------|------------------------|------------|
| 19.1 | Nationality - Officers | PHILIPPINO |
| | Nationality - Crew | PHILIPPINO |

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19.2	Number of Officers	7
	Number of Crew	7
	Spare	
	Owner	
	Total	14