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M/T Gaïa Desgagnés

MAIN PARTICULARS

GRT: 12,770
 NRT: 5,838
 LOA: 149.90 m
 LBP: 146.64 m
 Breadth (moulded): 22.80 m
 Depth (moulded): 12.10 m
 Deadweight: 17,999 mt at 9.35 m (summer draught, salt water)
 Builder: AVIC Dingheng Shipbuilding Co., Ltd., China, 2018
 IMO No.: 9739800
 Port of Registry: Québec
 Flag: Canada
 Official Number: 842564
 Call Sign: CFA2990
 Type: Chemical-Oil Tanker, Double Hull, IMO Type 2
 Class: Bureau Veritas I ✕Hull ✕Mach, Oil Tanker; Chemical Tanker; DualFuel; CPS (WBT); ESP; Unrestricted Navigation; Green Passport EU, ✕AVM-APS, ✕AUT-IMS, ✕SYS-NEQ-1, MON-SHAFT, EWCT, BWT, CleanShip, Ice Class 1A, ✕ERS-S, Inwater Survey, VCS, IG

CARGO SYSTEM

Total Capacity: 19,812 m³ at 98%
 Number of Tanks: 11 x Cargo + 1 x Slop
 Segregation: 11 x Cargo + 1 x Slop (12 in total)
 Max. Loading Rate: 600 m³/h for each tank
 Max. Discharge Rate: 1,800 m³/h, 120 m.l.c. (6 Cargo Pumps)
 Cargo Tank Pumps: 12 x 300 m³/h, 120 m.l.c.
 Slop Tank Pump: 1 x 300 m³/h, 120 m.l.c.
 Portable Emergency Pump: 1 x 70 m³/h, 70 m.l.c.
 Inert Gas System (LNG/MDO): 2,250 m³/h

BALLAST SYSTEM

Ballast Water Treatment System (BWTS): Alfa Laval PureBallast
 Pumps: 2 x 500 m³/h, 3 bar | Total Ballast: 7,493 m³ at 100%

MACHINERY

1 x Main Engine Wärtsilä 9L34DF, 4,500 kW, 750 rpm
 1 x Auxiliary Generator, 1,665 kW, 900 rpm
 1 x Auxiliary Generator, 721 kW, 900 rpm
 1 x Emergency Generator, 200 kW
 1 x Shaft Alternator/E-Motor, 1,800 kW (PTO), 1,500 kW (PTI)
 1 x Bow Thruster, 850 kW
 1 x Controllable Pitch Propeller, 4 blades, 5,000 mm dia.
 1 x Combined Auxiliary Boiler (OC-TCI) and 1 x Oil-fired Auxiliary Boiler (OS-TCI)

SPEED AND CONSUMPTION (MDO)

M/E at Sea: Eco Speed: Abt 11.0 kn on abt 9.7 mt/day at 46% MCR
 Normal Service Speed: Abt 12.0 kn on abt 12.4 mt/day at 59% MCR
 High Service Speed: Abt 13.5 kn on abt 17.5 mt/day at 87% MCR

A/E at Sea: 1.0 mt/day

A/E in Port: 1.0 – 8.0 mt/day

Boilers: Up to 4.0 mt/day depending on cargo and weather

TANK CAPACITIES

MDO: 661 m³ at 98% | LNG: 606 m³ at 98%
 Fresh Water (Domestic/Technical) 40/297 m³ at 100%

FEATURES AND COMPLIANCE WITH REGULATIONS

- Environment friendly vessel with LNG as a fuel, providing a reduction of the full spectrum of air emissions, with a superior performance in terms of CO₂, NO_x, SO_x, and particles emissions
- Safety focus with exceptional level of redundancy on propulsion and auxiliary systems, providing outstanding protection to sea staff and their ship, the environment, and to the Arctic re-supply mission
- Computerized Monitoring System for Cargo and Ballast Tanks, including Ullage, Temperature, High Level Alarm, etc.
- Fixed & Portable Washing, Fixed Gas-Freeing System for Cargo Tanks
- Loading Software including Stability Calculation for Intact or Damaged Vessel, etc.
- Closed Loading System with Vapor Return Line
- Cargo Heaters
- IMO Tier III Compliant
- Solas, Marpol, St. Lawrence Seaway, Suez, Panama

