

**7,000 m3 Semi-Refrigerated/Semi-Pressurised  
Liquified Gas Carrier**



**Preliminary Particulars of Project S-533**

|                                    |  |                      |                              |                                       |   |  |   |
|------------------------------------|--|----------------------|------------------------------|---------------------------------------|---|--|---|
| <b>Registration &amp; Managers</b> | Name   | PGC Eirini           | <b>Deck</b>                  | 1x                                    | Elect-hyd. Steering Gear  |  |   |
|                                    | Hull Number  | S-533                | <b>Machinery</b>             | 2x                                    | Elect-hyd. Windlass comb. With mooring winch**  |  |   |
|                                    | Flag   | Bahamas              |                              | 2x                                    | Elect-hyd mooring winch**   |  |   |
|                                    | Technical Managers   | Paradise NSA, Athens |                              | 1x                                    | Elect-hyd. Hose crane 5t  |  |   |
|                                    | Commercial Managers  | Gasmare Srl, Saronno |                              | 1x                                    | Elect, CPP bow thruster 310kW (nominal thrust 5t)<br>**each 2-split drums & 1 warping end               |  |   |
| <b>Main Dimensions</b>             | Length Overall   | 117.27 m             | <b>Cargo Handling System</b> | 2x                                    | Cargo Tank (insulated) 3,500 m3 each<br>Design Max Pressure 8.5 bar<br>Design Min Temperature -51 deg C |  |   |
|                                    | Length B.P.  | 110.0 m              |                              | 2x                                    | Deepwell Cargo Pumps 260m3/hr x 120m (SG 0.973)   |  |   |
|                                    | Breadth mld  | 19.20 m              |                              | 1x                                    | Booster pump 260m3/hr x 120m (SG 0.973)   |  |   |
|                                    | Depth mld  | 9.50 m               |                              | 1x                                    | Cargo heater 250 m3/h, propane base<br>16 deg C sea water)  |  |   |
|                                    | Design Draft   | 5.80 m               |                              | 1x                                    | Deck tank (80 m3 , Fully pressurized,<br>Design pressure 18 bar g, Design temp. -51 deg C               |  |   |
|                                    | Scantling Draft  | 6.80 m               |                              | 1x                                    | LPG indirect vaporizer 500Nm3 /h ,<br>Heating medium: 50%/50% fresh water / glycol                      |  |   |
|                                    | Intl. Tonnage  | abt 7,250 mt         |                              | 1x                                    | Bethioua (manifold D1) compliance   |  |   |
|                                    | Deadweight Design  | abt 4,700 mt         |                              |                                       |   |  |   |
| Deadweight Scantling               | abt 6,600 mt   |                      |                              |                                       |   |  |   |
| <b>Certification</b>               | Class: NK, NS* (LGC 2PG, PSPC-WBT) (PSCM) (IWS) (BWTS) / MNS Complement  |                      | 18 Persons                   |                                       |   |  |   |
| <b>Cargos Carried</b>              | Ammonia anhydrous, Propane, Propylene, Butane, Butane-Propane mixtures, Butadiene, Butylenes, VCM, Isoprene , Pentanes, Pentene, Commercial Propane up to 8% mol ethane in liquid phase at 1.013 bar |                      |                              |                                       |   |  |   |
| <b>Capacities</b>                  | Cargo Tank Total   | abt 7,000 m3         | <b>Reliquefaction System</b> | 2x                                    | Cargo compressor 460 m3/h   |  |   |
|                                    | Cargo Tanks  | 2 x abt 3,500 m3     |                              | 2x                                    | Suction separators  |  |   |
|                                    | Deck Tank  | abt 80 m3            |                              | 2x                                    | Cargo Condenser   |  |   |
|                                    | FO/DO Switch Tanks (Double Skin)   | abt 4 x 125 m3       |                              | 2x                                    | Cargo Receiver  |  |   |
|                                    | DO Tanks Total (Double Skin)   | abt 90 m3            |                              | <b>Propulsion Machinery</b>           | 1x  | MAN B&W 6L35MC6.1 Derated (L4)<br>M.C.O. 2,640kW @ 178 rpm<br>C.S.O. 2,376kW @ 171.9 rpm   |   |
|                                    | Fresh Water Tank   | abt 190 m3           |                              |                                       | 1x  | Fixed pitch propeller<br>Fuel 380cst @ 50 degC<br>NOx regulation tier II applied<br>Low sulfur (0.1% m/m) to be considered<br>(MGO cooler, etc.) |   |
|                                    | Water Ballast Tanks  | 3800 m3              |                              |                                       |   |  |   |
| Grey Water Tank                    | abt 40 m3  |                      |                              |                                       |   |  |   |
| <b>Performance</b>                 | Speed at Design Drat with 15% sea margin   | Consumption mt/day   | FO                           | or DO                                 | <b>Auxiliary Machinery</b>  |  |   |
|                                    |  | 14.1 kts             | 10.4                         | 9.9                                   |   |  |   |
|                                    |  | 13.6 kts             | 8.3                          | 7.9                                   |   | 3x   | Main Elec generator on DO @680 kW   |
|                                    | Endurance  | abt 13,800 nm        |                              | 1x                                    |   | Emergency elec Gen 96 kW   |   |
|                                    | MGO at Sea, no Cargo eqpt  | abt 1.6 mt/day       |                              | 1x                                    |   | Auxiliary boiler   |   |
|                                    | MGO at Sea, Pressurising   | abt 3.4 mt/day       |                              | 1x                                    |   | CO2 fire fighting system   |   |
|                                    | MGO at Seat, Pressg & Cooling  | abt 5.7 mt/day       |                              | 1x                                    |   | Nitrogen generation system @ 400 Nm3/h x 99.9%   |   |
|                                    | MGO in Port, Idle  | abt 1.1 mt/day       |                              | 1x                                    |   | Ballast Water Treatment system   |   |
|                                    | MGO Loading at 1 bar   | abt 3.1 mt/day       |                              | <b>Nautical &amp; Radio Equipment</b> |   | 2x   | Radar (X & S Band), 1x Giro compass & auto pilot,   |
|                                    | MGO Loading at max Press   | abt 5.9 mt/day       |                              |                                       |   | 2x   | DGPS, 1x AIS, 1x VDR, 1x LRIT, 1x BNWAS, 1x SSAS, 2x ECDIS. Complete GMDSS (A1, A2 & A3 shore based maint.) |
| MGO Discharging                    | abt 3.6 mt/day   |                      |                              |                                       |   |  |   |

