

2 x 5,340 m³ LEG/LPG-Carrier MT "Coral Rubrum / Coral Rigida" for ANTHONY VEDER GROUP, The Netherlands

Project Data:**Shipyard:**

SHANGHAI EDWARD, China

Year of completion: 1999

Classification: GL

TGE scope:

EPCS-contract, gas handling system & cargo tanks

Vessel:2 x 5,340 m³ semi ref.

LEG/LPG carrier, type 2G

Length o.a.	108.0 m
Beam:	16.8 m
Depth (main deck):	9.4 m
Draught (LPG):	6.1 m
Speed:	15.3 kn

**Characteristics of gas plant:**

- Capacity: 5,340 m³
- Number of cargo tanks: 2 (cylindrical type)
- Material: 5 % Ni steel, 12 Ni 19; DIN Mat.-No.: 1.5680
- Cargoes: Ethylene / LPG/ NH₃/ VCM
- Design temperature / pressure: - 104°C / 6.5 bar g acc. to IMO
4.4 bar g acc. to USCG
- Maximum cargo density: 972 kg/m³
- Number of segregations: 2
- Cargo manifolds: 2 liquid lines, 2 x 8", ANSI 300 lbs flanges
2 vapour lines, 2 x 6", ANSI 300 lbs
- Loading-/ unloading-rate: 800 m³/h 800 m³/h
- Deepwell pumps: 2 x 400 m³/h at 120 m LC
- Booster pumps: 1 x 250 m³/h at 120 m LC
- Number of cargo heater / vaporizer: 1/1 direct sea-water heated/ indirect heated vaporizer type
- Capacity: 150 m³/h Propane from -42°C to 0°C at 15°C
Sea-water temperature

Reliquefaction system:

Cascade cycle, refrigerant Propylene

2 x SULZER compressor

2 x MYCOM screw-compressor

Cargo piping system:

Stainless steel, AISI 321 DIN Mat.-No.: 1.4541

Inertgas plant:

PSA type nitrogen generation

- Capacity: 600 Nm³/h at 99.5 vol. % purity

Deck tanks:

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- Capacity: 50 m³
- Design pressure / temperature: 18 bar g / - 104°C