

2 x 22,000 cbm LPG-Carrier MT "Desert Orchid, Dancing Brave" for PEDREDEC, Singapore

Project Data:

Shipyard:

JIANGNAN SHIPYARD, China

Year of completion: 2009

Classification: GL

TGE scope:

EPCS-contract, gas handling system

Vessel:

22,000 m³ semi ref.

LPG carrier, type 2G

Length o.a.	170 m
Beam:	24.2 m
Depth (main deck):	16.7 m
Draught (VCM):	11.0 m
Speed:	16.5kn



Characteristics of gas plant:

Number of cargo tanks:

- Material: 22,000 m³
- Cargoes: 4 (bilobe type)
- Design temperature / pressure: 13 MuNi 6-3; DIN Mat.-No.: 1.6217
- Maximum cargo density: LPG/NH3/VCM
- Number of segregations: -48 °C/4.3 bar g acc. to IMO
- Cargo manifolds: 3.3 bar g acc. to USCG
- Loading-/ Unloading-rate: 972 kg/m³
- Deepwell pumps: 2
- Booster pumps: 2 liquid lines, 1 x 8", 1 x 12", ANSI 300 lbs flanges
- Number of cargo heater / vaporizer: 2 vapour lines, 1 x 6", 1 x 8", ANSI 300 lbs flanges
- Capacity: 2,000 m³/h / 2.000 m³/h
- Capacity: 8 x 250 m³/h at 120 m LC
- Capacity: 2 x 500 m³/h at 120 m LC
- Capacity: 1 direct sea-water shell & tube type
- Capacity: 400 m³/h Propane from -42°C to 0°C at 15°C sea-water temperature

Reliquefaction system:

3 x Cargo Compressors

Cargo piping system

Stainless steel, AISI 316 DIN Mat.-No.: 1.4571

Inertgas plant:

- Capacity: PSA type nitrogen generation
- Capacity: 1,000 Nm³/h at 99.5 vol.% purity

Deck tanks:

- Capacity: 2
- Capacity: 125 m³
- Design pressure temperature: 18 bar g / -48 °C