

2 x 12,500 m³ Ethylene-Carrier MT "Clipper Viking / Clipper Harald" for SOLVANG ASA, Norway

Project Data:

Shipyard:

MEYER-WERFT , Germany

Year of completion: 1998/1999

Classification: DNV

TGE scope:

Turn-key contract,
gas handling system

Vessel:

12,500 m³ semi ref.
LEG/LPG carrier, type 2G

Length o.a.	145.70 m
Beam:	20.50 m
Depth (main deck):	13.70 m
Draught (LPG):	9.75 m
Speed:	16.00 kn



Characteristics of gas plant:

- Number of cargo tanks; 3 (bilobe type)
- Material: 5 % Ni steel, 12 Ni 19; DIN Mat.-No.: 1.5680
- Cargoes: Ethylene/ LPG / NH₃/ VCM
- Design temperature / pressure: -104°C / 4.5 bar g acc. to IMO
3.3 bar g acc. to USCG
- Maximum cargo density: 972 kg/m³
- Number of segregations: 2
- Cargo manifolds: 2 liquid lines, 1 x 10", 1 x 6", ANSI 300 lbs flanges
2 vapour lines, 1 x 6", 1 x 4", ANSI 300 lbs flanges
- Loading- / unloading – rate: 1,200 m³/h / 1,200 m³/h
- Deepwell pumps: 6 x 200 m³/h at 120 m LC
- Booster pumps: 2 x 300 m³/h at 120 m LC
- Number of cargo heater / vaporizer: 2
- Type: Direct sea-water heated / indirect water / glycol heated
- Capacity: 100 t/h Propane from -42°C to 0°C at 15°C
Sea water temperature, 60 t/h Propane from -42°C to 0°C indirect heated

Reliquefaction system:

Cascade cycle, refrigerant propylene
2 x SABROE screw-, 4 x SULZER compressor

Cargo piping system:

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

Inertgas plant:

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