

2 x 11,600 m³ Ethylene/Chem.-Carrier MT "Igloo Tor" (ex "Gjertrud Maersk") MT "Igloo Hav" (ex Gudrun Maersk) for BERGESEN DY ASA, Norway

Project Data:

Shipyard:

THYSSEN NORDSEEWERKE, Germany

Year of completion: 1989

Classification: LRS

TGE scope:

Turn-key contract,
gas handling system

Vessel:

11,600 m³ semi ref. Ethylene/ Chem. carrier, type 2G

Length o.a.	153.0 m
Beam:	22.0 m
Depth (main deck):	12.2 m
Draught (LPG):	8.5 m
Speed:	16.5 kn



Characteristics of gas plant:

- Capacity: 11,600 m³
- Number of cargo tanks: 7 (cylindrical type)
- Material: AISI 316 LN, DIN Mat.-No.: 1.4429
- Cargoes: Ethylene/LPG/NH₃/VCM/Chemicals
- Design temperature / pressure: -104°C / +60°C / 4.0 bar g acc. to IMO
3.3 bar g acc. to USCG
- Maximum cargo density: 2,100 kg/m³
- Number of segregations: 2
- Cargo manifolds: 4 liquid lines, 2 x 4", 1 x 6", 1 x 8" ANSI 300 lbs flanges
4 vapour lines, 2 x 3", 2 x 4" ANSI 300 lbs flanges
- Loading-/ Unloading rate: 900 m³/h / 900 m³/h
- Deepwell pumps: 7 x 150 m³/h at 120 m LC
- Booster pumps: 2 x 260 m³/h at 120 m LC
- Number of cargo heater: 2, direct sea-water heated type
- Capacity: 260 m³/h Propane from -42°C to -2°C at 15°C
Sea-water temperature

Reliquefaction system:

Cascade cycle, refrigerant R22
3 x SULZER compressor
3 x MYCOM compressor

Cargo piping system:

Stainless steel, AISI 316 L

Inertgas plant:

- Capacity: Combustion Generator
950/600 Nm³/h at 85/99.4 vol. % purity