

## 2 x 5,600 m<sup>3</sup> LEG/LPG-Carrier MT "EPSILONGAS / KAPPAGAS" for SLOMAN NEPTUN, Germany

### Project Data:

#### **Shipyard:**

MÜTZENFELDWERFT, Germany  
FERROSTAAL AG, Germany

**Year of completion:** 2000/2001

**Classification:** GL

#### **TGE scope:**

Turn-key contract, gas handling system & cargo tanks

#### **Vessel:**

5,600 m<sup>3</sup> semi ref. LEG/LPG carrier, type 2G



Length o.a.	108.00 m
Beam:	16.80 m
Depth (main deck):	9.40 m
Draught (LPG):	6.15 m
Speed:	16.20 kn

### **Characteristics of gas plant:**

Capacity:	5,600 m <sup>3</sup>
Number of cargo tanks:	2 (1 bilobe type + 1 cylindrical type)
Material:	5 % Ni-steel 12 Ni 19; DIN Mat-No.: 1.5680
Cargoes:	Ethylene/LPG/NH <sub>3</sub> /VCM
Design temperature / pressure:	-104 C/ 6.5/5.8 bar g acc. to IMO 3.8 bar g acc. to USCG
Maximum cargo density:	972 kg/m <sup>3</sup>
Number of segregations:	2
Cargo manifolds:	2 liquid lines, 1 x 8", 1 x 6", ANSI 300 lbs flanges 2 vapour lines, 1 x 6", 1 x 4", ANSI 300 lbs flanges
Loading-/Unloading-rate:	880 m <sup>3</sup> /h/880 m <sup>3</sup> /h
• Deepwell pumps:	3 x 300 m <sup>3</sup> /h/at 120 m LC
• Booster pumps:	1 x 250 m <sup>3</sup> /h/at 120 m LC
Number of cargo heater /vaporizer:	1 direct sea-water heated type
• Capacity:	230 m <sup>3</sup> /h propane from -42°C to 0°C at 15°C

### **Reliquefaction system:**

Cascade cycle, refrigerant R 404 A  
2x SULZER compressor  
2x MYCOM screw-compressor

### **Cargo piping system:**

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

### **Inertgas plant:**

- Capacity: PSA type nitrogen generation  
600 Nm<sup>3</sup>/h at 99.5 vol. % purity