

## 3,750 m<sup>3</sup> LPG-Carrier MT "Happy Falcon" for Othello Shipping Company APS, Denmark

### Project Data:

#### Shipyard:

MÜTZELFELDTWERFT, Germany

Year of completion: 2002

Classification: GL

#### TGE scope:

EPCS-contract, gas handling system & cargo tanks

#### Vessel:

3,750 m<sup>3</sup> semi ref. LPG carrier, type 2PG

Length o.a.	95.60 m
Beam:	14.40 m
Depth (main deck):	7.50 m
Draught (LPG):	5.35 m
Speed:	5.20 kn



### Characteristics of gas plant:

Capacity:	3,750 m <sup>3</sup>
Number of cargo tanks:	2 (cylindrical type)
• Material:	low temperature carbon steel, 13 MnNi 63
Cargoes:	LPG/VCM/NH <sub>3</sub>
Design temperature / pressure:	-48°C/ 6.5 bar g acc. to IMO 4,3 bar g acc to USCG
Maximum cargo density:	972 kg/m <sup>3</sup>
Number of segregations:	1
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:	600 m <sup>3</sup> /h / 600 m <sup>3</sup> /h
• Deepwell pumps:	2 x 300 m <sup>3</sup> /h at 120 m LC
• Booster pumps:	1 x 300 m <sup>3</sup> /h at 120 m LC
Number of cargo heater:	1 direct sea-water heated type
• Capacity	110 m <sup>3</sup> /h Propane from -42°C to 0°C at 15°C sea-water temperature

### Reliquefaction system:

direct cycle  
2 x SULZER compressor

### Cargo piping system:

Stainless steel, AISI 316L

### Inertgas plant:

- Capacity: Combustion type generation  
300 Nm<sup>3</sup>/h at 99.5 vol. % purity