

10 x 8.000 m³ LPG/ Ethylene/ Ammonia/ VCM-Carriers "Isabella Kosan, Helena Kosan, Ocean Prism, Alexandra Kosan, Ocean Prize" for LAURITZEN KOSAN AS, Denmark

Project Data:

Shipyard:

SEKWANG Heavy Industries Co., Ltd.
Korea

Year of completion: 2007

Classification: BV

TGE's scope:

EPCS-contract, gas handling system & cargo tanks

Vessel:

8.000 m³ semi ref. LPG carrier, type 2G

Length o.a.	115,00 m
Beam:	18,60 m
Draught (LPG):	8,65 m
Speed:	15,30 kn



Characteristics of gas plant:

Capacity:	8.000 m ³
Number of cargo tanks:	2
• Material:	5 % Ni Steel
Cargoes:	LPG/Ethylene/Ammonia/VCM
Design temperature / pressure:	-104°C/ 6,0 bar g acc. to IMO at sea
Maximum cargo density:	972 kg/m ³
Number of segregations:	2
Cargo manifolds:	2 liquid lines, 8", 6" ANSI 300 lbs flanges 2 vapour lines, 4", 6" ANSI 300 lbs flanges
Loading-/Unloading-rate:	960 m ³ /h
• Deepwell pump:	2 x 480 m ³ /h/at 120 m LC
• Booster pump:	300 m ³ /h at 120 m LC
Cargo heating / vaporising equipment:	
• 1 indirect ethylene vaporiser	1000 m ³ /h at 15°C sea water temp.
• 1 indirect LPG-heater / vaporiser	300 m ³ /h propane – 42°C to 0°C, vapour 1000 Nm ³ /h

Reliquefaction system:

Cascade / direct cycle
2 x refrigerant compressors (refrigerant R 404 A)
2 x cargo compressors

Cargo piping system:

Stainless steel,

Compressed Dry Air System:

- Capacity: 4000 Nm³/h at 9.0 barg, atmospheric dew point -22°C

Fuel Gas Supply System for Dual Fuel Gen Set:

- Capacity: 7 – 20 kg/h