7.500 cbm LNG/LPG/ Ethylene/ Ammonia/ VCM-Carrier "Coral Methane" for ANTHONY VEDER, Netherlands

Project Data:

Shipyard:
Remontowa, Gdansk, Poland

Year of completion: 2009

Classification: BV

TGE's scope:
EPCS-contract, gas handling system & cargo tanks, ship design development

Vessel:
7.500 m³ semi ref. LNG carrier, type 2G

Length o.a.	117,80 m
Beam:	18,60 m
Draught (LPG):	6,80 m
Speed:	15,5 kn

Characteristics of gas plant:

Capacity:	7.500 m³
Number of cargo tanks:	2
Material:	AISI 304L
Cargoes:	LNG/LPG/Ethylene/Ammonia/VCM
Design temperature / pressure:	-163°C/ 3,2 bar g acc. to IMO at sea
Maximum cargo density:	650 kg/m³
Number of segregations:	2
Cargo manifolds:	3 liquid lines, 6", 8", 8" ANSI 300 lbs flanges 3 vapour lines, 4", 6",6 » ANSI 300 lbs flanges
Loading-/Unloading-rate:	900 m³/h (with vapour return)
Deepwell pump:	2 x 450 m³/h/at 120 m LC for LEG/LPG 2 x 450 m³/h at 210 m LC for LNG
Booster pump:	1 x 450 m³/h at 120 m LC
Cargo heating / vaporising equipment:	1 indirect ethylene vaporiser 900 m³/h at 15°C sea water temp. 1 direct sea water heated LPG-heater / vaporiser 174 t/h propane – 42°C to 0°C at 15°C sea water, vapour 3 t/h 1 indirect LNG Vaporiser, vapour 1t/h
Reliquefaction system:	Cascade / direct cycle (not including LNG) 2 x refrigerant compressors (refrigerant R 404 A) 2 x cargo compressors 1 suction gas heater for fuelgas
Cargo piping system:	Stainless steel,
Nitrogen generation plant:	Pressure swing adsorption
Capacity:	750 Nm³/h at 0,5 vol. % O2
Deck Tanks:	1
Capacity:	80 m³
Design Pressure / Temperature:	18 bar g/ -163°C

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