6,500 cbm LNG Bunker-Vessel

"Cardissa"

for SHELL, United Kingdom

Project Data: 2960
Shipyard:
STX, Korea
Year of completion: 2016
Classification: LR
TGE's scope:
Cargo handling system with cargo tanks, LNG fuel gas system

Vessel:
6,800 m³ LNG bunker vessel

Length o.a.	119.90 m
Beam:	19.4 m
Draught (LNG):	5.8 m
Speed:	13.0 kn

Characteristics of gas plant:

Capacity:	5,100 m³
Number of cargo tanks:	2 (cylinder type)
Material of cargo tanks:	9% Ni steel
Cargoes:	LNG
Design temperature / pressure:	-170°C / 3.5 bar g
Maximum cargo density:	500 kg/m³
Number of segregations:	1
Cargo manifolds:	1 liquid line, 1 x 10" DIN 150 lbs flange
	1 liquid branch, 1 x 10" DIN 150 lbs flange
	1 vapour line, 1 x 8" DIN 150 lbs flange
Elevated manifolds:	1 liquid line, 1 x 16" DIN 150 lbs presentation flange
	1 vapour line, 1 x 16" DIN 150 lbs presentation flange
Bunker manifolds:	1 liquid line, 1 x 10" DIN 150 lbs flange
	1 vapour line, 1 x 8" DIN 150 lbs flange
Loading- / Unloadingrate:	1,100 m³/h
Deepwell pump	2 x 550 m³/h at 270 mLC
BOG-handling & fuel gas system:	2 x cargo compressors with intercoolers
	2 x aftercoolers
	2 x submerged fuel gas pumps
	1 x forcing vaporizer
	1 x fuel gas buffer tank
	1 x fuel gas metering system
Cargo piping system:	Stainless steel, AISI 316L

Inertgas plant:

PSA type	Capacity:	750 Nm³at 99.5 vol. % N_2
Membrane system	Capacity:	150 Nm³/h at 3 vol. % O_2
Gas combustion unit: (by yard)	Capacity:	1,200 kg/h (by yard)

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