30,000 cbm LNG-Carrier
‘Hai Yang Shi You 301’
for CNOOC, China

Project Data: 2550
Shipyard: Jiangnan Shipyard Group Co., Ltd., China
Year of completion: 2015
Classification: CCS
TGE’s scope: Design and supply of complete equipment and material for cargo handling system, cargo tanks and fuel gas system

Vessel:
30,000 m³
Length o.a.: 184.7m
Beam: 28.1 m
Draught (LNG): 7.4 m
Speed: 16.5 kn

Characteristics of gas plant:
Capacity: 30,000 m³
Number of cargo tanks: 4 (bilobe type)
Material of cargo tanks: 9% Ni Steel
Cargoes: LNG
Design temperature / pressure: -164°C / 3.5 bar g acc. to IMO at sea
Maximum cargo density: 500 kg/m³
Number of segregations: 1
Cargo manifolds:
2 liquid lines, 2 x 16” ANSI 150 lbs flanges
1 vapour lines, 1 x 16” ANSI 150 lbs flanges
Loading- / Unloadingrate:
Deepwell pump 4,400 m³/h
Booster pump 8 x 550 m³/h at 120 m LC

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:
Membrane system
Capacity: 80 Nm³/h at 3 vol. % O₂