

30,000 cbm LNG-Carrier
“Hai Yang Shi You 301”
for CNOOC, China

Project Data:

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: 4,400 m³/h

Deepwell pump 8 x 550 m³/h at 120 m LC

Booster pump

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