



MAIN PARTICULARS

Class Notation	: LR ✱ 100AT, LNG Barge, Ship type 2G, Methane(LNG) in independent Type C tank, Maximum vapour pressure (4.0barg), Minimum cargo temperature -163degC, *IWS, LI, ✱ Lloyd's RGP
Length Overall	: 149.90 m
Breadth Moulded	: 31.00 m
Depth Moulded	: 12.50 m
Design Draft	: 6.50 m
Complement	: 29 P

MACHINERY

<u>Main Generator Sets</u>	
Generator Engine	: 2 x 960 bkW, 1000rpm, dual fuel(MGO/NG)
Alternator	: 2 x 920 ekW
<u>Emergency Generator</u>	
Engine Output Power:	: 1 x 740 kW, diesel driven
Alternator	: 1 x 550 ekW

CAPACITY

LNG Cargo Tanks	: 4 x 6,250 m ³ @98% filling
(IMO Type C cylindrical tank, design temp. -163°C, design pressure 4.0 bar)	
Ballast Water Tanks	: ≈ 9,150 m ³
Fuel Oil Tanks	: ≈ 150 m ³
Fresh Water Tanks	: ≈ 280 m ³
Bilge Holding Tank	: ≈ 100 m ³
Sewage Holding Tank	: ≈ 30 m ³

CARGO HANDLING SYSTEM

LNG Cargo Pump	: 8 x 100 m ³ /hr @240mlc, submerged pump, 2 in each cargo tank
BOG Compressor	: 2 x 2000 kg/h, electric motor driven
BOG Buffer Tank	: 1 x 7 m ³ 12 bar
BOG Heater	: 2 x 2000 kg/h
N2/Dry Air Generator	: 2 x 100 Nm ³ /h, membrane type with 8 m ³ / 10 barg buffer tank
Cargo Hose Crane	: 2 x 3 MT @10 m, electro-hydraulic
Provision Crane	: 1 x 2 MT @4 m, electro-hydraulic
Cargo Manifolds	: 2 x liquid line connections, 250A 1 x vapour line connection, 250A 2 x regas discharge line connection, 150A
Vent Mast	: 2 sets
Regas Metering Skid	: 1 set
<u>Regasification System (Direct Steam Heating)</u>	
Number of Trains in operation	: 2
Gas Export Flow, maximum	: 50 mmscfd
Gas Export Pressure	: 12 barg
Gas Export Temperature	: min. 5°C, max 45°C
Regas Vaporizer	: 2 x 25 mmscfd (total 50 mmscfd) steam heating medium, shell & tube type
<u>Steam System</u>	
Steam Boiler	: 3 x 8 tons/hr
Boiler Feed Water Pump	: 6 sets
Cascade Tank	: 1 x 10 m ³
Drain Cooler/Dumping Condenser	: seawater cooling medium

SAFETY SYSTEM

Liferaft	: 6 x 16 men
Life Jacket	: 35 nos.
Life Buoys	: 10 nos.
Fireman's Outfit	: 4 nos.
PPE for LNG Handling	: 4 nos.
Water Spray System	: according to IGC Code
Dry Chemical Powder System	: according to IGC Code
Gas Detection System	: according to IGC Code
CO ₂ System	: according to Rules & Regulation

GENERAL ARRANGEMENT

