

ENERGY  
ENVIRONMENT  
ECONOMY

## WSD55 12K 12,000 M<sup>3</sup> LNG/LPG/LEG CARRIER, TYPE 2G



### TECHNICAL SPECIFICATION

Length over all, approx. .... 137.0 m  
 Deadweight, max. .... 9,900 DWT  
 Gross Tonnage ..... 12,300 GT  
 Net Tonnage ..... 3,700 NT

Design Speed ..... 14.5 knots  
 Operation ..... "Worldwide"

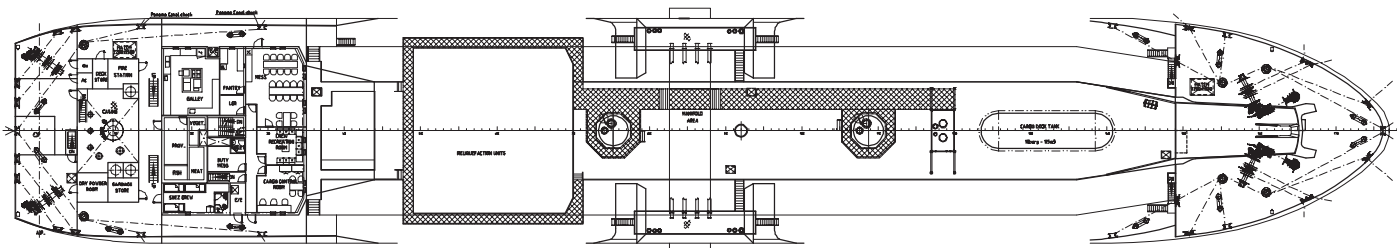
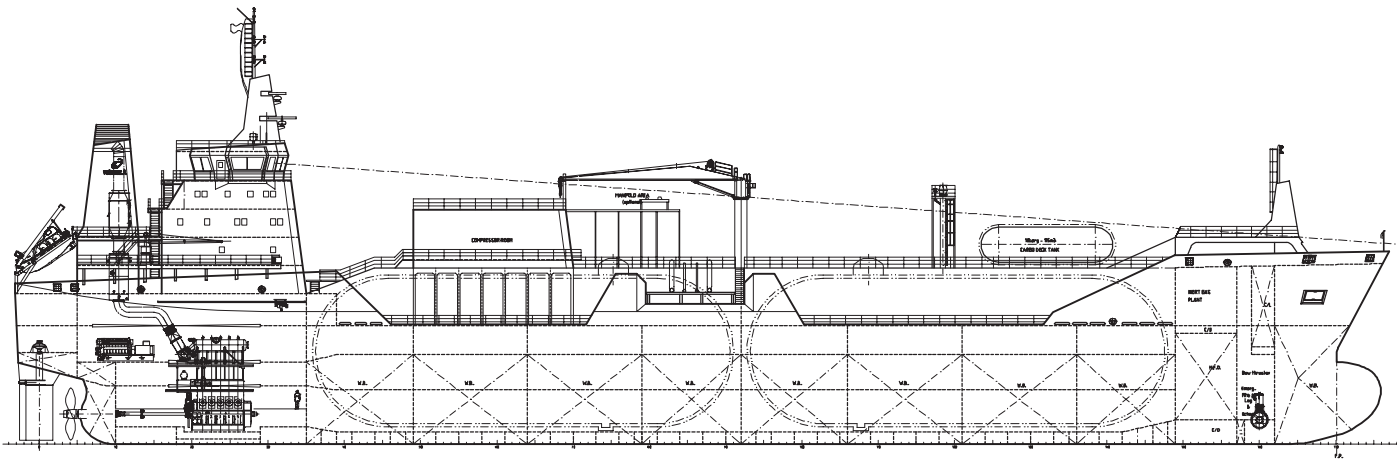
Main engine..... 2-stroke Wärtsilä  
 1 x 5,200 kW 5RT-Flex50DF

Cargo capacity(100%) ..... 12,000 m<sup>3</sup>

Daily fuel oil cons. (LNG)  
 Design draught ..... 13.5 t  
 Scantling draught ..... 15.8 t

### DESIGN HIGHLIGHTS

- Latest technology Dual Fuel Engines to operate on LNG in ECA zones (IMO Tier III) and HFO outside at competitive fuel cost
- Single decked with machinery and accommodation located aft
- Single screw propulsion with low speed DF main engine
- Ballast water treatment plant compliant with the latest MARPOL V
- Sewage and garbage handling fully compliant with MARPOL IV/V
- Superior hull lines, CFD optimized
- Low fuel oil consumption, high propulsive efficiency
- 2 x 6,000 m<sup>3</sup> Cylindrical type C cargo tank
- Multigas carrier
- Capable of transport LNG, LPG, LEG and other Petrochemical gases
- Burn on LNG-cargo BOG
- LNG as fuel when transport Non-LNG cargos is optional
- Spaces for Scrubber & SCR reserved
- Verified by CCS AIP (approval in principle)



### MAIN DIMENSIONS

Length over all, approx. ....	137.00 m
Length PP .....	129.30 m
Breadth moulded .....	22.40 m
Depth moulded, to main deck .....	11.80 m
Draught, design .....	6.20 m
Draught, scantling.....	7.10 m
Deadweight (T= 7.1m) .....	9,900 t

### SPEED

Speed (T= 7.1m) .....	14.5 knots
-----------------------	------------

### CAPACITIES

HFO capacity .....	800 m <sup>3</sup>
FW capacity.....	200 m <sup>3</sup>
Endurance (FO).....	9,000 nm
Deck tank.....	160 m <sup>3</sup>
LNG fuel tank (option).....	280 m <sup>3</sup>

### SPECIAL EQUIPMENT

- Deepwell/booster pumps
- Cargo heating/vaporising equipment
- Reliquefaction unit for LPG/LEG
- Reliquefaction unit for LNG (option)
- Gas combustion unit (option)
- Nitrogen generator unit

### ENVIROMENTAL EQUIPMENT

- B.W.T. unit, Wärtsilä AQ-550-EC
- Sewage and garbage treatment

### ESDs

- Energo ProFin
- Mewis duct (or equivalent)

### DECK'S MACHINERY

- 2 x combined anchor/mooring winches fwd and 2 x mooring winches aft, all auto-tension
- El.-hydr. steering gear for flap rudder
- 1 x el.-hydr. hose crane
- Free fall lifeboats for 18 persons
- Life rafts for 18 persons
- Life raft for 6 persons

### MACHINERY

Main engine (5RT Flex 50DF) .....	5,200 kW
Generator sets (6L20DF) .....	3 x 1,065 kW
Emerg. generator .....	1 x 150 kW
Bow thrusters (CT-200H).....	1 x 813 kW
Propeller.....	1 x FPP, dia. 5,200 mm

### E-PLANT 230 V/450 V

Power .....	450 V, 60 Hz
Lighting .....	230 V, 60 Hz
Automation .....	230 V, 60 Hz / 24VDC

### ACCOMMODATION

18 persons full HVAC in single cabins

### CLASSIFICATION

CCS★CSA, Liquefied Gas Carrier, Type 2G, Type C Independent Tank, Max. Pressure 0.52 MPa, Min. Temperature -164°C, IGS, PSPC(B), Loading Computer(S, I, D), Clean, BWMS, In Water Surve  
★ CSM, Aut-0, DFD

Or equivalent

WÄRTSILÄ® is a registered trademark. Copyright © 2015 Wärtsilä Corporation. Specifications are subject to change without prior notice.

shipdesign@wartsila.com

WARTSILA.COM

