**WSD42 111K DF**

**AFRAMAX TANKER FOR OIL AND PRODUCTS**

**MAIN DATA**
- Length over all: 252.80 m
- Deadweight, max draft: 110,670 dwt
- Gross Tonnage: abt. 59,900 GT
- Service speed: 14.5 knots
- Operation range: "Worldwide"
- 2-stroke main engine: 10,400 kW
- Wärtsilä 6X62 DF
- Cargo segregation: 12 cargo tanks
- Fuel oil consumption, serv. speed at design draught (LNG mode, 90% MCR): 31.3 t/day

- Tanker for Crude Oil and Dark Petroleum Products
- Latest Dual Fuel technology to operate on LNG in ECA zones (IMO Tier III) and HFO/MGO outside at competitive fuel costs
- Single decked, single screw motor ship with machinery
- Superior hull lines, CFD optimized and proven by extensive model testing
- Meeting EEDI of 2025 requirements

- Twelve (12) cargo tanks + two (2) slop tanks
- Steam driven cargo handling system with high loading/discharging capacities
- Clean design - Fuel tanks in engine room arranged with cofferdams against outer shell
- Optional ice class
**Main Dimensions**
- Length over all, approx. ................. 252.80 m
- Length between PP .......................... 242.00 m
- Breadth moulded .............................. 44.00 m
- Depth moulded ................................ 20.80 m
- Design draught ............................... 13.60 m
- Scantling draught ............................. 15.00 m
- Deadweight, @ design draft .............. 97,350 t
- Deadweight, @ scantl. draft ............... 110,670 t

**Speed**
- Service speed @ design draft ............ 14.5 knots (Sea margin 15%, 90% MCR)

**Consumption and Endurance**
- Daily fuel consumption (LNG) @ Td .... 31.3 t/day
- Daily fuel consumption (MDO) @ Td .... 39.2 t/day
- Daily fuel consumption (HFO) @ Td .... 41.2 t/day

Endurance, serv. speed (on LNG) ........ 7,000 nm
Endurance, serv. speed (on HFO) ........... 15,000 nm

**Capacities**
- Cargo tanks 100% fill, approx. .......... 125,600 m³
- Slop tanks 100% fill, approx. ............ 2380 m³
- Ballast water tanks, approx. .......... 36,800 m³
- HFO, storage, serv., approx. .......... 1900 m³
- MDO, approx. ............................. 460 m³
- Lub. Oil, approx. .......................... 100 m³
- Fresh water tanks, approx. ............ 400 m³
- LNG tanks ................................... 1540 m³

**Cargo Equipment**
- Discharge rate .............................. 9,000 m³/h
- Cargo pumps (centrifugal) .............. 3 x 3,000 m³/hr
- Steam turbines ........................... 3 x 1,277 kW
- Stripping system ......................... 300 m³/hr

**Environmental**
- Available for configuration with SCR (NOx) and Scrubber (SOx) technology
- Ballast water treatment unit .... 4000 m³/hr (electro-chlorination type)

**Ship Equipment**
- One (1) balanced full spade rudder with twisted leading edge
- One (1) el.-hydraulic steering gear

**Deck’s Machinery**
- Two (2) separate combined anchor/mooring winches with double drums and one (1) warping head – forecastle deck
- Two (2) mooring winches with double drums and one (1) warping head – main deck aft
- Two (2) mooring winches with double drums – main deck
- One (1) el.-hydr. hose crane SWL 15.0 t @ 26.0 m

**Machinery**
- Main engine MCR (W6X6DF) ............... 10,400 kW
- Generator sets (W6L20DF) .............. 3 x 1,110 kW
- Emerg. / harbour generator ............ 1 x 200 kW
- Oil fired steam boilers .................... 2 x 25 t/hr
- Propeller ................................. 1 x FPP Ø 8,000 m,

**E-Plant**
- Power ......................................... 440 V, 60 Hz
- Lighting ...................................... 230 V, 60 Hz
- Automation ................................ 230 V, 60 Hz / 24 VDC

**Accommodation**
- 28 persons full HVAC in single cabins

**Classification**
- DNV 1A1 Tanker for Oil ESP PLUS-1,
  NAUTICUS (Newbuilding), TMON, E0, NAUT-AW, COAT-1, OPP-F, CCG, F-AMC, VCS-2, CLEAN, GAS FUELLED or equivalent IACS

**ESDs**
- EnergoProFin
- Mewis Duct

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