EXECUTIVE SUMMARY - TUGS

ASD TUG 3212
APRIL 2017
CHARACTERISTICS

Main dimensions:

- Length over all: 32.70 m
- Breadth over all: 12.82 m
- Depth at side: 5.35 m
- Draught aft: 5.35 m
- Full displacement: 774 ton
- Power: 5050 kW
- Bollard pull: 80.0 ton
- Speed: 15.3 knots
- Class: 100 A1 Escort Tug *IWS LMC UMS

ø 100 A1 Escort Tug, Fire Fighting Ship 1 (2400 m³/hr) with water spray *IWS LMC UMS
Capacities:

- Fuel oil: 146.4 m³
- Fresh water: 15.6 m³
- Sewage: 5.1 m³
- Bilge water: 6.7 m³
- Dirty oil: 4.2 m³
- Lubrication oil: 8.2 m³
- Sludge: 2.4 m³
- ø Foam: 12.5 m³
- ø Dispersant: 5.3 m³
### PROPULSION SYSTEM

**CATERPILLAR 3516C HD TA/D**
- Maximum power 2525 kW at 1800 rpm
- Electric starting system
- Closed fresh water cooling circuits
- Resiliently mounted
- Emissions compliant with EPA Tier 2 and IMO Tier 2
- Gas detection system combined with rig savers

**ROLLS ROYCE US 25 CP**
- Straight shaft line with bow tooth coupling
- CuNiAl four bladed fixed pitch 2800 mm propeller
- Protected propulsion shaft and couplings
- Build in on/off clutch
- Nozzle with stainless steel inner plate
ENGINE ROOM LAYOUT

ENGINE ROOM

- Standard bilge/ fire fighting module
- Bilge water separator
- 2x Main generator sets 125 kVA
- Closed keel cooling water system with box coolers
- 45 dB(A) exhaust silencers
- Forced engine room ventilation
- Sewage treatment plant

Optional

- Fuel oil purifier
- Air intake filter engine room ventilation
- Internal fire fighting engine room (CO₂)
- Dispersant system
- External fire fighting up to 2400 m³/hr
MAIN DECK LAYOUT

FORE DECK

- Heavy duty cylindrical bow fendering
- Towing bitt with stainless steel inner plating
- Hydraulic double drum anchor/towing winch with wrapping head

Optional

- Hydraulic double drum rendering/recovery anchor/towing winch fore
**AFT DECK**

- Heavy deck / hull construction
- Spacious aft deck with an obstacle-free design
- Heavy duty cylindrical stern fendering
- Double pole towing bitt
- Towing hook
- Capstan
- Flush engine room hatches

**Optional equipment:**

- Hydraulic single drum towing winch aft
- Deck crane
### WHEELHOUSE LAYOUT

#### ERGONOMICS
- Modern and efficient standard layout
- Helmsman’s seat on sliding rail
- Ergonomic designed consoles
- Excellent all round view from helmsman’s positions
- Navigation equipment conform GMDSS area 1 (ø 2 or 3)
- Remote controlled monitoring

#### COMFORT
- Low noise levels
- Large heated wheelhouse windows
- Completely lined and insulated interior
- Floating floor and sound absorbing ceiling
- Centralized air-conditioning system
- Optimal lighting
ACCOMMODATION LAYOUT

COMFORT

- Modern interior
- Floating floor
- Complete insulated
- Air-conditioning
- Floor heating for individual temperature control
- Durable and maintenance friendly materials
- Information screens, tv, radio and computer systems are provided in the mess room and cabins

STANDARD OUTFITTING

- 10 persons accommodation
- Comfortable mess room with lockers, settees, radio & tv, alarm info and nautical communication
- Galley with modern equipment
- Spacious, very comfortable and air-conditioned cabins
- All sanitary spaces have hot and cold water
BUILDING YARD

Hull construction and complete outfitting:

Damen Shipyards Galati, Romania
Damen Song Cam Shipyard, Vietnam
DAMEN SHIPYARDS GORINCHEM
P.O. Box 1
4200 AA GORINCHEM
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