TUGS  ➤  ASD TUG 2411
CHARACTERISTICS

Main dimensions:

- Length over all: 24.47 m
- Breadth over all: 11.13 m
- Depth at side: 4.60 m
- Draught aft: 5.35 m
- Full displacement: 490 ton
- Power: 4200 kW
- Bollard pull ahead: 65.4 ton
- Bollard pull astern: 61.5 ton
- Speed ahead: 12.7 knots
- Speed astern: 12.2 knots
- Class: LR * 100 A1 Tug [*] LMC UMS IWS
Capacities:

- Fuel oil: 68.2 m³
- Fresh water: 8.8 m³
- Sewage: 3.1 m³
- Bilge water: 1.9 m³
- Dirty oil: 2.9 m³
- Lubrication oil: 4.8 m³
- Ø Foam: 6.3 m³
- Ø Dispersant: 3.1 m³
**PROPULSION SYSTEM**

**CATERPILLAR 3516C HD/D**

- 16 cylinder V-type
- Electronically controlled injectors
- Emissions compliant with EPA Tier 2 and IMO
- Maximum power 2100 kW at 1600 rpm
- Resiliently mounted main engines

**ROLLS ROYCE US 255 FP**

- Straight shaft line with bow tooth coupling
- Built-in slipping clutch
- CuNiAl five bladed fixed pitch 2600 mm propeller
- TK nozzle with stainless steel inner plate
- Standard bilge/fire fighting module
- Closed cooling water systems with box coolers
- Forced engine room ventilation
- 45 dB(A) exhaust dampers
- 2 generator sets 86 kVA each

**Optional equipment**

- Fuel oil purifiers
- Sewage treatment plant
- Air intake filter engine room ventilation
- Dispersant system
- External FiFi; 600 m³/hr, 1200 m³/hr or 2400 m³/hr
- Internal fire fighting engine room
Spacious unobstructed fore deck with:

- Towing bitt
- Stainless steel fairleads
- Heavy duty rubber fendering system, bow fender + seawater spray
- Hydraulic split drum anchor/towing winch
  - Pull 33 ton up to 11 m/min
  - Slack rope speed up to 51 m/min
  - Brake holding force 150 ton
  - Rope 150 meter Ø 80 mm Euroflex
MAIN DECK LAYOUT

AFT DECK

- Heavy duty rubber fendering
- Flush engine room hatch
- Central filling station
- Towing bitt

Optional equipment:

- Foldable navigation mast
- Electric capstan, 5 ton at 15 m/min
- Towing hook 100 ton
- Hydraulic deck crane max. lifting capacity 0.8 ton at 10.36 m
WHEELHOUSE LAYOUT

ERGONOMICS

- Modern and efficient standard layout
- Excellent all round view
- Ergonomic designed consoles
- Chart table with drawers

COMFORT

- Helmsman’s seat at center line
- Second helmsman’s seat at PS
- Noise level in the wheelhouse < 65 dBA
- UMS alarm panels
- Navigation equipment conform GMDSS area 1 (2 or 3)
- Towing winch foot control
ACCOMMODATION LAYOUT

**COMFORT**

- Modern linings
- Floating floor
- Complete insulated
- Air-conditioning

**STANDARD OUTFITTING**

- Accommodation for 4 persons
- Galley with modern equipment
- Mess room
- Toilet space
- Shower
- Store with wooden shelving
- Washing machine and tumble dryer

**Optional equipment:**

- Additional heating in cabins
- Additional freezer
BUILDING YARD

Hull construction and complete outfitting:

Damen Shipyards Changde, China
Damen Shipyards Sharjah, U.A.E.
SERVICES

AFTER SALES DEPARTMENT

- Short delivery time for components
- Complete package of components
- Maintenance Management Solutions
- Registration of components

DAMEN FIELD SERVICE

- Post delivery support
- Warrantee and after sales services
- Training courses (in house and on site)
- Technical check-ups
TUGS ➤ ASD TUG 2411