



ATD TUG 2412 TWIN FIN[®]

DECEMBER 2017



CHARACTERISTICS

Main dimensions:

Length over all	24.74	m
Breadth over all	12.63	m
Depth at side	4.60	m
Draught aft	5.85	m
Full displacement	490	ton
Power	4200	kW
Bollard pull	70.0	ton
Speed	12.0	knots

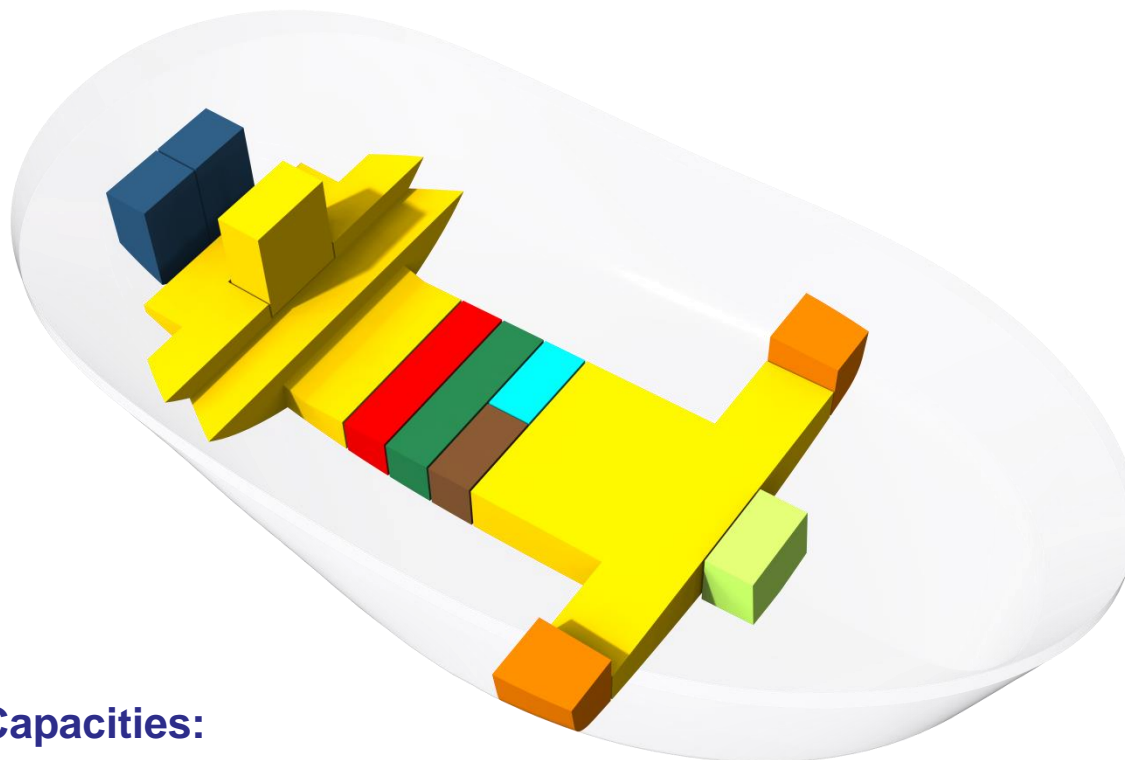
Class Lloyd's Register ✕ 100 A1 Tug [✕] LMC UMS IWS

ø Fire-Fighting 1









ø Fire-Fighting 1 with waterspray



TANK CONFIGURATION



Capacities:

 Fuel oil	71.2 m ³	 Dirty oil	3.0 m ³
 Fresh water	8.0 m ³	 Lubrication oil	7.0 m ³
 Sewage	3.4 m ³	 ø Foam	5.4 m ³
 Bilge water	5.8 m ³	 ø Dispersant	3.0 m ³

ø = optional equipment

PROPULSION SYSTEM

CATERPILLAR 3516C HD+ TA/D



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

ROLLS ROYCE US 255 FP



- Straight shaft line with bow teeth coupling
- Built-in slipping clutch
- CuNiAl five bladed fixed pitch 2600 mm propeller
- TK nozzle with stainless steel inner plate
- Protected propulsion shaft

ENGINE ROOM LAYOUT



ENGINE ROOM

- Forced engine room ventilation
- 2x Main generator sets 86 kVA
- Closed cooling water system with box coolers
- 35 dB(A) exhaust silencers
- Proven / reliable bilge / general service module

Optional

- Dispersant set
- Bilge water separator
- Fuel oil purifiers
- Sewage treatment plant
- Air intake filter engine room ventilation
- Internal FiFi engine room (CO₂)
- External fire fighting 600 / 1200 or 2400 m³/hr

MAIN DECK LAYOUT



MAIN DECK

- Heavy deck / hull construction
- Towing bitt 150 ton brake force
- Enclosed bulwark construction
- Towing winch split drum 2x 150 m
Pull / Speed: 33 ton up to 11 m/min on second layer
- Towing hook; SWL 65 ton
- Heavy rubber fendering
- Central filling station

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 (2 or 3)
- Chart table with drawers

COMFORT



- Low noise levels
- Large windows
- Floating floor and sound absorbing ceiling
- Ventilation, air-conditioning and heating
- Towing winch foot control
- UMS alarm panels

ACCOMMODATION LAYOUT

COMFORT



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

STANDARD OUTFITTING



- 4 persons accommodation
- Comfortable mess room
- Galley with modern equipment
- Spacious, very comfortable and air-conditioned cabins
- All sanitary spaces have hot and cold water
- Store with wooden shelving

BUILDING YARD

Hull construction and complete outfitting:

Damen Song Cam Shipyard, Vietnam



Under construction:

YN 545020

YN 545021

YN 545022







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STANDARD OF EXCELLENCE

