



TAN CANG OFFSHORE SERVICES JSC.

Vessel Specification



TC HAI AN

Technical Specification

Tug Vessel : 8,160 HP
DP2, FiFi class 1
Bollard Pull: 90 MT

“Our success is driven by the customers”

MAIN PARTICULARS

GENERAL

Year of delivery	2012
Call sign / IMO	3WAO / 9560273
Place Built	Malaysia
Flag (Port of Registry)	Vietnam
Class/Notation	Lloyd's + VR *100A1 AHTS, Fire-Fighting Ship 1 (2400 m3/h) <with Water Spray> *LMC, USM, DP(AA)
GRT/NRT	2178 T / 653 T

ACCOMODATION

Cabins	13
Berth total	38
Hospital	Yes
All cabins fully air-conditioned & all c/w attached toilet (except 4 berth cabins)	

PRINCIPAL DIMENSIONS

Length Overall	64.80 m
Breadth Moulded	16.00 m
Depth Moulded	6.50 m
Max Draft	5.58 m

TANK CAPACITIES

Fuel Oil	624.0 m3
Fresh Water	388.0 m3
Drill Water	569.0 m3
Mud	191 m3 (total)
Brine	150 m3 (total)
Dry Bulk / Cement	226 m3 in 4 tanks
Foam	15 m3
Dispersant	15 m3

CARGO CAPACITIES

Deadweight	2048 T
Deck Load	5.5 MT/ m2
Clear Deck Area	435 m2

DISCHARGING RATES

Fuel/Pump	100 m3/h@ 80m
Fresh Water/Pump	150 m3/h@ 90m
Drill Water/Pump	150 m3/h@ 90m
Liquid mud/Pump	100 m3/h@ 80m
Brine/Pump	100 m3/h@ 80m
Cement Pump	Working pressure 6.0 bar
Flow meter	For FO,FW

Technical parameters are subject to change without notice

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MACHINERIES

➡ PROPULSION SYSTEM

Main Engines	2 x Rolls Royce Bergan C25:33L9 x 4080 BHP
Main Generators	2 x CAT C18engine rated 500kW 440V 60Hz
Shaft Generators	2 x Rolls Royce AVK 1450 kW 440V 60 Hz
Emergency Generators	1 x CAT C4.4 109kW 400V 60 Hz
Stern Thruster	2 x Rolls Royce CPP 7.5 MT thrust 650 Kw Elec motor driven
Bow Thruster	1 x Rolls Royce CPP 7.5 MT thrust 650 Kw Elec motor driven
Bollard Pull	110 MT
Propeller	2 x 3050mm, 4 blades CPP in Fixed nozzels
Deck Crane	5T Knuckle Boom @15m Radius

➡ DECK EQUIPMENT

Tow/AH winch	1 x 250T Multimaskin AS
Main Tow Wire	1000m x 58mm
AH Wire	400m x 58mm
Spare Tow Wire	1000m x 58mm
Line Pull	150T Pull, 250 T Brake
Stern Rolers	5m x 1,8 m diam; 200 Ton SWL
Towing Pin	2 x 200T
Chain stopper	1x 200MT Shark Jaw
J hook	1 x SWL 110 Tons
Grp hook	1 x SWL 110 Tons
Tugger winches	2 x 11T
Capstan	2 x 9T

➡ SPEED/FUEL

Max Speed	13.8 knots
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Fuel type	MGO
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➡ NAVIGATION AND COMMUNICATION EQUIPMENT

FBB	01 x Sailor /FBB 250
HF/FM/Telex	01 x Sailor /CU 5100
Inmarsat C	02 x Sailor /TT 3026C
VHF fixed	01 x Sailor /Rt 5022
Navtex	01 x JRC/NRC 333
Radar	02 x Raytheon Anschutz /NSC25
DGPS	02 x AD 430
Echo sounder	02 x Raytheon Anschutz /GDS 101
AIS Transponder	01 SAAb/R4

➡ DP/ JOYSTICK CONTROL

Kongsberg K-Pos DP-21, Dynamic Positioning System, Dual redundant with DP references as follows:

2 x DGPS/DGLSS L1L2 – DPS 110

1 x Fanbeam 5 laser reference system

➡ LIFE SAVING EQUIPMENTS

FiFi System	External FiFi 1
FiFi Pump	2 x 1,650 m3/hr
FiFi Monitors	2 x 1,200 m3/hr
Spray Booms	2 x 6.0 m/ Fixed nozzle
Rescue Boat	01 x 60HP -12 person
Life Buoys	10
Life Jackets	50

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