

Vessel Specification "De Tao"

9000BHP DP AHTS/PSV

Registration

Flag	:	China
Home Port	:	Shanghai
Official Number	:	12L0208
IMO Number	:	9646522
Call Sign	:	BTIA
Ship Identification Number:		CN20111966519
Classification	:	:CSA Offshore/Tug Supply Ship, Stand-by Ship, Fire Fighting Ship 1, Water Spraying, Ice Class B, DP-2, AFS, FTP CSM AUT-0, SCM
Builder	:	Shanghai JiangNan Shipyard
Year Built	:	2011
Date of Delivery	:	2012.6
Imarsat-C	:	441219988
Sailing Area	:	World-wide

Dimensions

Length Overall	:	73.85m
Length BP	:	64.20m
Breadth Moulded	:	17.20m
Depth Moulded	:	7.60m
Draft Loaded(full)	:	6.10m
Design Draught	:	4.70m
Loaded Displacement	:	5397.9Tons

Tonnage

Gross Tonnage	:	2961
Net Tonnage	:	888
Dead Weight	:	2871 Tons
Light Weight	:	2527 Tons

Deck Capacities

Deck Area(Clear)	:	630 m ² (Including second deck)
Deck Cargo	:	900Tons
Deck Strength	:	5T/m ² --10T/m ² (with in 14.5 m from stern)

Deck Equipment

Anchor	:	3 x Speke Anchor 2640kg, 1xSpare Anchor
Windlass	:	2 x HAITAI 120KN-12m/min,Light Load-30m/min Max.Load 600KN Chain 2 x AM3-Ø44mm/825m Mooring Drum 60KN-15m/min,Light Load-30m/min Max.Load 400KN Mooring Line Ø60mmx150m
Tugger Winch	:	2xHAITAI 100KN-15m/min Light Load 30KN--40 m/min
Capstan	:	2 x HAITAI 50KN-15m/min, Light Load—30m/min
Crane	:	1 x HAITAI SWL 3 Tons/10m

Tank Capacity

P. Water	:	1056 m ³
D. Water	:	852 m ³
Fuel Oil	:	755 m ³
Bulk	:	228m ³ (4x57)
Liquid Mud/brine	:	477m ³
Brine2	:	175m ³
Lube Oil	:	23m ³

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Transfer Rates

P. Water	: 150m/hr 8.0 Bar
D. Water	: 150m/hr 8.0 Bar
Fuel Oil	: 125m/hr 8.0 Bar
Bulk	: 80m/hr 5.6 Bar
Liquid Mud	: 82m/hr 8.0 Bar

Machinery

Main Engine	: 2 x MAN 9L27/38 800r/m
Horse Power	: 2x3285kw, Total 6570kw (8935BHP)
Bollard Pull	: 133Tons
Propeller	: 2xCPP /ALPHA VBS980 CPP
Rudder Gear	: 2xRolls-Royce SR662 FCP
Generator	: CAT/450kw×2 380v/3P/ 50Hz
Shaft Generator	: A. van Kaick×2, 1800kw 400v/3P/50Hz
Thrusters	: Bow : 690kw×2 TCT-150,103KN Stern : 690kw×2 TCT150,103KN

Speed

Maximum	: 14.5Knots
Economical	: 12.5Knots

Consumption

Max Consumption:	29.17Tons/day
Economical	: 23Tons/day
Idling	: 1.5Tons/day

Towing/Anchor Handling

Winch	: 1x HAITAI 2000KN-6m/min, 300KN-18m/min Max. Load 3000KN Φ78 (AM3) 289KN ≥15m/min; φ84 (AM3) 335.2KN ≥15m/min
Tow Line	: ø64mm×1000m 1 in Towing Drum Max. Break 2300KN
Stern Roller	: 1xWG-3000/∅2.0m×6m/SWL 3000KN (And do 1.1 m bulwark)
Shark Jaw	: 1xZICON /SWL 3000KN (This area spread wooden deck)
Towing Pins	: 1xZICON /SWL 2000-3000KN (This area spread wooden deck)

Navigation/Communication

Radar	: 1 x Furuno Far- 2127 +1 x Furuno Far-2137S +1 x Repeat display (after driving)
Sextant	: 2 x GL II 130-40
Autopilot	: 1 x Anschutz Pilotstard
Navtex Receiver	: 1 x Furuno NX-700A
Echo Sounder	: 1 x Furuno FE-700
Log	: 1 x Furuno DS-80
VHF	: 2 x Furuno VHF FM-8800S
Portable VHF	: 6 x Icom IC-M33
Facsimile	: 1 x Brother Fax-2820
SSB	: 1 x Furuno FS-2570 (250W)
Gyro Compass	: 3x Anschutz Standard 22
Magnetic Compass	: 1 x Lilley & Gillie MK2000
GPS	: 1x Furuno GP-150
Aneroid Barometer	: 2 x DYM3
Anemoscope	: 2 x Gill Ultrasonic Wind Sensor +1x Wind Sensor Wind Observator OMC-160
VDR	: TOTEM VDR 1.3
BNWAS	: KBJ-3

Safety Equipment

Ring Buoy	: 10
Proof Jacket	: 60
Life Jacket	: 60
Life Raft	: 6x25 persons
Rescue Net	: 6x8m/Main Deck Each Side
Rescue Boat	: JIANGYIN WOLONG JY65KR Speed(3Persons)≥25knot Speed (6Persons)≥8knot
Rescue Zones	: Main Deck Each Side
Radar Transponder	: 2 x Mcmurdo 9GHZ SART S4
EPIRB	: 1 x Mcmurdo 406MHZ EPIRBE5
Camera Monitoring System	: 7set

Accommodation

Crew Quarters	: 18
Passenger Berth	: 32
Hospital Berths	: 1
Galley Capacity	: 50Persons

Oil Spill Control

Spray Boom Length	: 2x6m
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Fire Fighting System : (Fi-Fi 1)

Fire Pump	: 2 x 1600 m ³ /h each
Monitors	: 2x1200m ³ /h, Remote Control(Stab.Monitor Can Use Foam)
Fixed Water Spray System:	according to Class
Dispersant Tank	: 11.8m ³
EEBD	: 7
Fire Axe	: 2
Portable Fire Extinguisher	: 57
Wheeled Fire Extinguisher	: 2
Hose Box	: 28
International Shore Connector:	2
Fireman's Suit	: 4

Dynamic Positioning System (Class 2)

2 x Operator stations (1 off redundant controller)
3 x Winder sensors with heating
2 x UPS power supplies
1 x DP printer
2 x Kongsberg HiPap 501(one for future installation)
3 x Motion reference unit (1 off x-y-z direction)
1 x Kongsberg RADIUS 1000D - Dual Interrogator, with cabinet
1 x DPS 112,
1 x DPS 232
2 x IALA Beacon receiver
2 x L1/L2 GPS / Glonass SBAS antenna;
1 x Fleet broadband 500 demodulator
2 x Spotbeam demodulator
1 x joystick system
1 x DP History Station
1 x DP Diving Alert System

Activities Laundry And Smoking Room (7.1m×2.4m×2.3m)

Industrial washing machine:	20kg×2
Dryer	: 15kg×2
Smoking room	: 4.5 m ²

The specification is given in good faith but are without guarantee.