

CONSTRUCT TIDE II



YUEXIN CT II PLATFORM SUPPLY VESSEL

Vessel Characteristics

Length, Overall:	216.5 ft	66 m
Beam:	65.6 ft	20 m
Depth:	19.4 ft	5.9 m
Maximum Draft:	15.1 ft	4.6 m
Light Draft:	10.2 ft	3.1 m
Minimum Height:	79 ft	24.1 m
Freeboard:	5.3 ft	1.6 m
Displacement:	3,780 lt	3,840 mt
Deadweight:	1,350 lt	1,370 mt
Clear Deck Space:	91 x 64 ft	28 x 19 m
Clear Deck Area:	3,300 ft ²	310 m ²
Deck Strength AFT:	1,020 lb/ft ²	5 t/m ²
Class Notations:	ABS: (E), +A1, +AMS, OSV, +DPS-2, GP, FFV-1, +ACC, ENVIRO, CRC, UWILD	

Capacities

Deck Cargo:	490 lt	500 t
Fuel Oil:	145,000 gal	550 m ³
Potable Water:	100,000 gal	380 m ³
Fresh Water:	51,800 gal	200 m ³
Drill/Ballast Water:	310,000 gal	1,170 m ³

TIDEWATER

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NOTICE: The data contained herein is provided for convenience of reference to allow users to determine the suitability of the Company's equipment. The data may vary from the current condition of equipment which can only be determined by physical inspection. Company has exercised due diligence to insure that the data contained herein is reasonably accurate. However, Company does not warrant the accuracy or completeness of the data. In no event shall Company be liable for any damages whatsoever arising out of the use or inability to use the data contained herein.

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Further specifications



Machinery

Diesel Electric Vessel			
Propulsive/Total HP:	4,830 / 7,940		
Z-Drives:	Yes		
Propellers (2):	2413HP SCHOTTEL SRP1515 FIXED		
Kort Nozzles:	2		
Primary Generators (4):	1,400 kw	690 v	60 hz
Driven by:	CAT 3512C		
Emergency Generators (1):	100 kw	440 v	60 hz
Driven by:	VOLVO PENTA D7A T RC		
Bow Thruster (2):	SCHOTTEL STT3, FIXED		
Driven by:	800 KW EL MOTOR		
Total Thrust:	26.8 st	24.3 mt	

Deck Equipment

Anchors (2):	2640KG
Anchor Chain:	230 m of 46 mm chain per side
Windlass:	ELECTRO HYDRAULIC
4-Point Mooring:	Yes
Bow Winch (2):	40T LINEPULL, 1500M OF 52MM
Stern Winch (2):	40T LINEPULL, 1500M OF 52MM
Crane (1):	60 t @ 16.8 m
Aux. Crane (1):	5 t @ 15 m
Tugger (2):	6 t HYDRAULIC

Accommodations

No. of Berths:	60
Cabins:	10x1-man, 7x2-man & 9x4-man
Certified to Carry:	60
Galley seating:	28
Hospital:	Yes

Registration

Flag: VANUATU	Home Port: PORT VILA
Hull Number: 3161	IMO N ^o : 9663221
Year Built: 2013	Call Sign: YJTH3
Builder:	YUEXIN SHIPBUILDING
Tonnage (ITC):	2637 GT 791 NT

Performance*

Fuel Consumption Vs Speed		
Maximum:	28.8 m³/day (320 gph) @ 13 knots	
Cruising:	24 m³/day (260 gph) @ 11 knots	
Economical:	19.2 m³/day (210 gph) @ 8 knots	
Standby:	1.8 m³/day (20 gph) @ 0 knots	
Range @ 11 Knots:	6,000 nm	
Transfer Rates		
Fuel Oil:	880 gpm @ 300 ft	200 m³/h @ 90 m
Fresh Water:	660 gpm @ 300 ft	150 m³/h @ 90 m
Drill/Ballast Water:	660 gpm @ 300 ft	150 m³/h @ 90 m

Nav/Comms Equipment

Radar(s):	2
Depth Sounder:	1
Gyro Compass:	3
Wind Speed Indicators:	3
Doppler Log:	1
Radio:	3 x VHF

Special Equipment

Firefighting:	FiFi-1
Dynamic Positioning:	DP-2
Ref. Systems:	2 x MRU; 2 x DGPS 1 x Microwave-based; 1 x Laser-based
Water Maker:	2 X 10T/DAY
Rescue Zone:	Yes
Rescue Boat:	6 MAN SOLAS
Misc:	MSD-60 PERSONS, SPS 2008; 30FT WORKBOAT; SURFER LANDING, REMOVE BWRKS P/S; Aux Main Crane Rating: 33,069lbs @ 170ft; WELDING SHOP

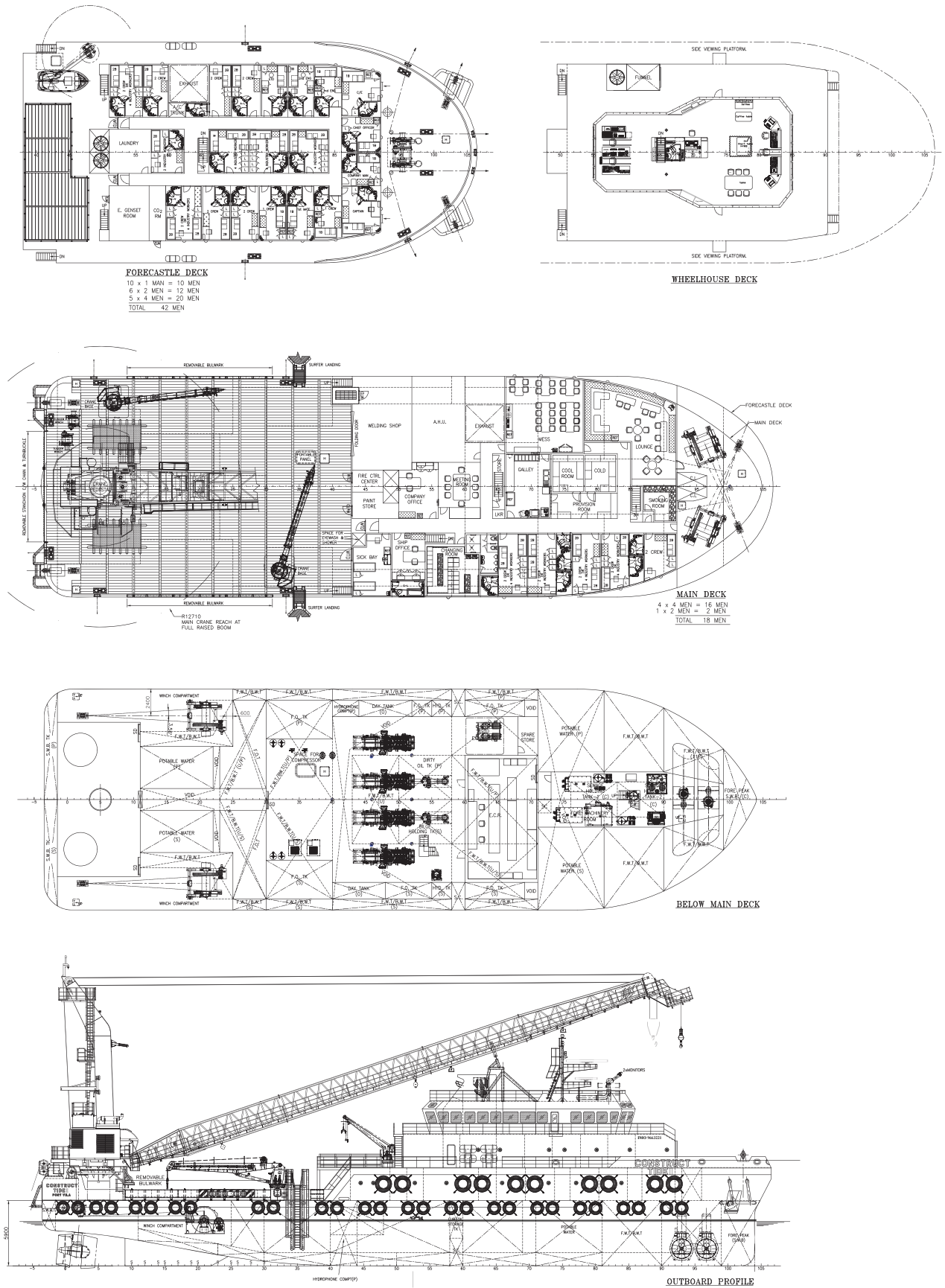
*Approximate values assuming Ideal Conditions

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General Arrangement (Current configuration may vary.)



Capacity Table



*Capacities shown are for lead vessel. Actual capacities may vary slightly.

*Capacities shown in **RED** are excluded from the total volume.

*Capacities shown in **BLUE** are included in another Tank's Capacity.

*Capacities shown in **GREEN** are counted for multiple Tank Capacities.

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DP Capability Plot



KONGSBERG

DP Capability Plot

CONSTRUCT TIDE

Case number : 1
Case description : Optimum use of all thrusters
Thrusters active : T1-T4
Rudders active :

Input file reference	: foot_3755.scp
Last modified	: 2011-02-11 18.16 (v. 2.8.0)
Length overall	: 66.0 m
Length between perpendiculars	: 64.4 m
Breadth	: 20.0 m
Draught	: 4.0 m
Displacement	: 3495.0 t (Cb = 0.66)
Longitudinal radius of inertia	: 16.1 m (= 0.25 * Lpp)
Pos. of origin ahead of Lpp/2 (Xo)	: 0.0 m
Wind load coefficients	: Calculated (Blendermann)
Current load coefficients	: Database (Scaled by Draught/Length)
Wave-drift load coefficients	: Database (Scaled by Breadth/Length)
Tidal current direction offset	: 0.0 deg
Wave direction offset	: 0.0 deg
Wave spectrum type	: JONSWAP (gamma = 3.30)
Wind spectrum type	: NPD
Current - wave-drift interaction	: OFF
Load dynamics allowance	: 1.0 * STD of thrust demand
Additional surge force	: 0.0 tf
Additional sway force	: 0.0 tf
Additional yawing moment	: 0.0 tf.m
Additional force direction	: Fixed
Density of salt water	: 1026.0 kg/m³
Density of air	: 1.226 kg/m³ (15 °C)
Power limitations	: OFF
Thrust loss calculation	: ON

#	Thruster	X [m]	Y [m]	F+ [tf]	F- [tf]	Max [%]	Pe [kW]	Rudder
1	TUNNEL	27.1	0.0	12.0	-12.0	100	800	
2	TUNNEL	24.9	0.0	12.0	-12.0	100	800	
3	AZIMUTH	-30.8	-4.5	31.8	-19.6	100	1800	
4	AZIMUTH	-30.8	4.5	31.8	-19.6	100	1800	

