

BRASHER TIDE



70 M FUJIAN MAWEI PLATFORM SUPPLY VESSEL

Vessel Characteristics

Length, Overall:	229.7 ft	70 m
Beam:	55.1 ft	16.8 m
Depth:	24.6 ft	7.5 m
Maximum Draft:	20.3 ft	6.2 m
Light Draft:	10.8 ft	3.3 m
Minimum Height:	85 ft	25.9 m
Freeboard:	4.3 ft	1.3 m
Displacement:	4,840 lt	4,920 mt
Deadweight:	2,860 lt	2,910 mt
Clear Deck Space:	135 x 46 ft	41 x 14 m
Clear Deck Area:	6,170 ft ²	570 m ²
Deck Strength AFT:	1,020 lb/ft ²	5 t/m ²
Class Notations:	ABS: +A1(E), Offshore Support Vessel, FFV-1, +AMS, +DPS-2, UWILD	

Capacities

Deck Cargo:	1,330 lt	1,350 t
Fuel Oil:	327,000 gal	1,240 m ³
Potable Water:	41,100 gal	160 m ³
Fresh Water:	65,100 gal	250 m ³
Drill/Ballast Water:	169,000 gal	640 m ³
Bulk Tanks (4 tanks):	6,800 ft ³	190 m ³
Liquid Mud (2.5 SG*):	3,760 bbl	600 m ³
*Max Structural Specific Gravity		
Oil Dispersant:	5,660 gal	21.4 m ³
Fire Fighting Foam:	5,660 gal	21.4 m ³

TIDEWATER

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Pg.2 Further Specifications

Pg.4 Capacity Table

Pg.3 General Arrangement

Pg.5 DP Capability Plot

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.

LAST UPDATE: 11/22/2023

Machinery

Main Engines (2):	Niigata 6L28HX		
Total HP:	4,930		
Z-Drives:	Yes		
Propellers (2):	FPP NIIGATA ZP-41A		
Kort Nozzles:	2		
Primary Generators (3):	800 kw	410 v	50 hz
Driven by:	Cummins KTA38-D(MI)		
Secondary Generators (1):	330 kw	410 v	50 hz
Driven by:	Cummins KTA19		
Emergency Generators (1):	80 kw	410 v	50 hz
Driven by:	Cummins 6BT5.9(M)		
Bow Thruster (2):	Brunvoll FU63-LTC-1550 TT CPP		
Driven by:	1x610kW, 1x575kW Electric Motors		
Total Thrust:	19.8 st	18 mt	

Deck Equipment

Anchors (2):	4067 lbs Stockless Bower HHP
Anchor Chain:	460 m of 46 mm chain per side
Windlass:	Electro-Hydraulic (13t @ 18m/min)
Crane (1):	2.2 t @ 12.2 m
Capstans (2):	10 t Electro-Hydraulic
Tugger (1):	10 t ELECTRO-HYDRAULIC

Accommodations

No. of Berths:	26
Cabins:	4x1-man, 5x2-man & 3x4-man
Certified to Carry:	26
Galley seating:	26
Hospital:	Yes

Registration

Flag: VANUATU	Home Port: PORT VILA	
Hull Number: 6184	IMO N ^o : 9512226	
Year Built: 2008	Call Sign: YJVN8	
Builder:	FUJIAN MAWEI	
Tonnage (ITC):	2369 GT	710 NT

Performance*

Fuel Consumption Vs Speed		
Maximum:	20 m³/day (220 gph) @ 13 knots	
Cruising:	16 m³/day (180 gph) @ 11.5 knots	
Economical:	12.3 m³/day (130 gph) @ 10 knots	
Standby:	1.6 m³/day (18.1 gph) @ 0 knots	
Range @ 10 Knots:	25,400 nm	
Transfer Rates		
Fuel Oil:	440 gpm @ 330 ft	100 m³/h @ 100 m
Fresh Water:	440 gpm @ 330 ft	100 m³/h @ 100 m
Drill/Ballast Water:	440 gpm @ 330 ft	100 m³/h @ 100 m
Bulk:	28 cfm @ 220 ft	47.5 m³/h @ 66 m
Liquid Mud:	330 gpm @ 300 ft	75 m³/h @ 90 m

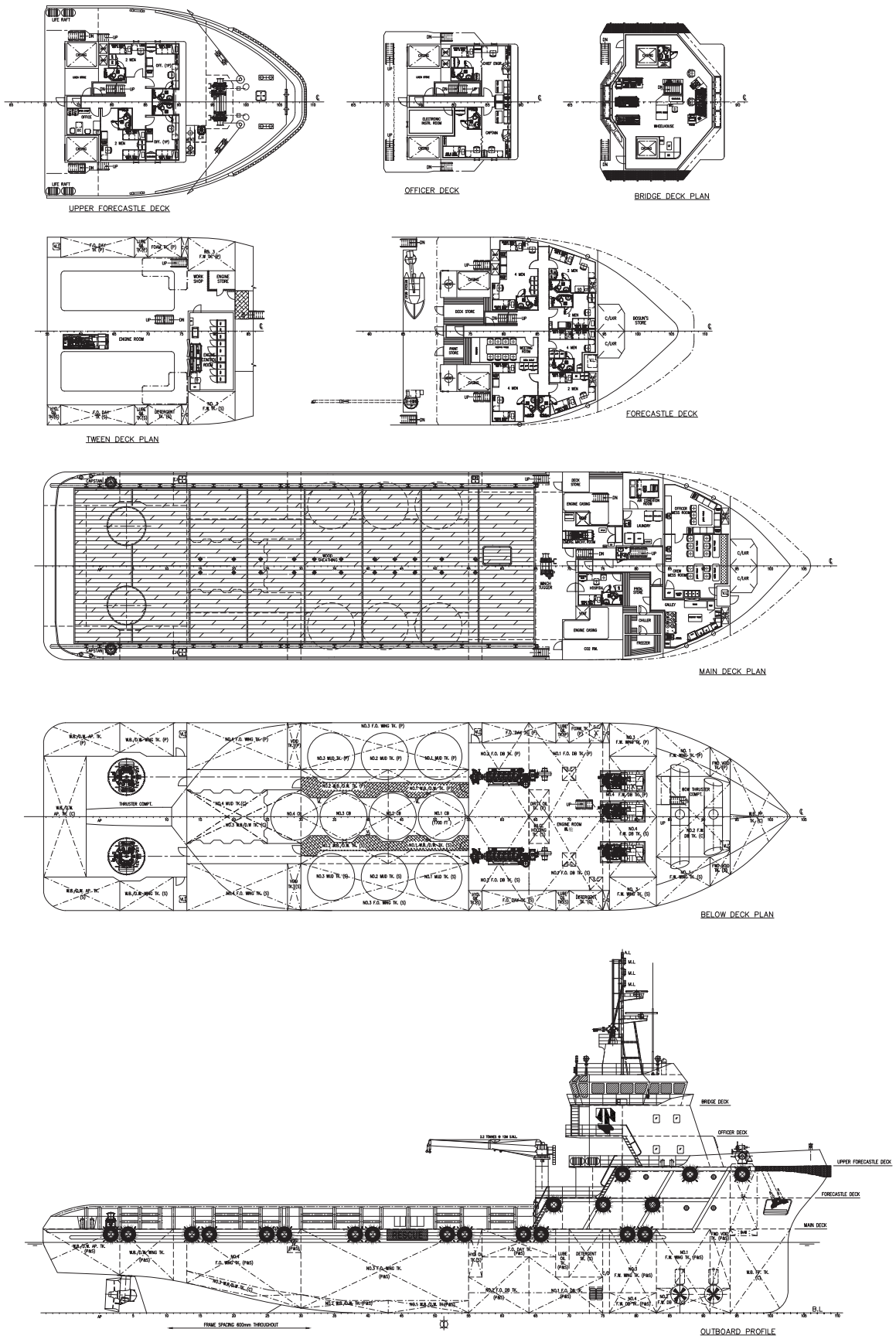
Nav/Comms Equipment

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

Special Equipment

Firefighting:	FiFi-1
Dynamic Positioning:	DP-2
Ref. Systems:	2 x MRU; 2 x DGPS 2 x Laser-based
Water Maker:	5T/DAY
Mud Circulation System/ Mud Mixers:	Yes/Yes
Rescue Zone:	Yes
Rescue Boat:	15-MAN FRC
Gas Detection:	FIXED GAS DETECTION + 2XPORTABLE SENSORS
Reefer Sockets:	2x 220V 32A, 1x 415V 63A, 5x 415V 32A, 2x 220V 50A, 2x 440V 50A
Misc:	MSD - 30 Persons; S-VDR; Paraguard Type Stretcher; FO & FW Cargo Meters; Winching Zone; Eye Wash Station; Fixed Aviation VHF; Food Waste Grinder

*Approximate values assuming Ideal Conditions





Tank Table

Tank	Contents	Volume m ³	Base Oil	Fuel Oil	Dry Bulk	DW/WB	Potable Water	Fresh Water	Brine	Liquid Mud	Methanol	Lube Oil	Foam	Oil Disp.
WB FP Tk C	DW/WB	151.6				151.6								
No. 1 WB/DW Tk P	DW/WB	31.2				31.2								
No. 1 WB/DW Tk S	DW/WB	31.2				31.2								
No. 2 WB/DW Tk P	DW/WB	31.4				31.4								
No. 2 WB/DW Tk S	DW/WB	31.4				31.4								
No. 3 WB/DW Tk C	DW/WB	51.0				51.0								
WB/DW Wing Tk P	DW/WB	42.9				42.9								
WB/DW Wing Tk S	DW/WB	42.9				42.9								
WB/DW AP Tk P	DW/WB	47.8				47.8								
WB/DW AP Tk S	DW/WB	47.8				47.8								
WB/DW AP Tk C	DW/WB	130.3				130.3								
No.1 FW Wing Tk P	Ships FW	77.9					77.9							
No.1 FW Wing Tk S	Ships FW	77.9					77.9							
No. 2 FW DB Tk C	FW	58.0						58.0						
No.3 FW Wing Tk P	FW	56.9						56.9						
No.3 FW Wing Tk S	FW	56.9						56.9						
No. 4 FW DB Tk P	FW	37.3						37.3						
No. 4 FW DB Tk S	FW	37.3						37.3						
FO Day Tk P	FO	29.1		29.1										
FO Day Tk S	FO	29.1		29.1										
No. 1 FO DB Tk P	FO	89.2		89.2										
No. 1 FO DB Tk S	FO	88.3		88.3										
No. 2 FO DB Tk P	FO	97.1		97.1										
No. 2 FO DB Tk S	FO	97.1		97.1										
No. 3 FO Wing Tk P	FO	228.3		228.3										
No. 3 FO Wing Tk S	FO	228.3		228.3										
No. 4 FO Wing Tk P	FO	205.6		205.6										
No. 4 FO Wing Tk S	FO	205.6		205.6										
No. 1 Mud Tk P	LM	76.7								76.7				
No. 1 Mud Tk S	LM	76.7								76.7				
No. 2 Mud Tk P	LM	76.7								76.7				
No. 2 Mud Tk S	LM	76.7								76.7				
No. 3 Mud Tk P	LM	74.2								74.2				
No. 3 Mud Tk S	LM	74.2								74.2				
No. 4 Mud Tk C	LM	142.4								142.4				
Lube Oil (P)	LO	9.0										9.0		
Lube Oil (S)	LO	9.0										9.0		
Foam Tk	Foam	21.4											21.4	
Detergent Tk	Dispersant	21.4												21.4
No. 1 CEM Tk C	Dry Bulk	48.1			48.1									
No. 2 CEM Tk C	Dry Bulk	48.1			48.1									
No. 3 CEM Tk C	Dry Bulk	48.1			48.1									
No. 4 CEM Tk C	Dry Bulk	48.1			48.1									
Total Volume [m ³]			0.0	1,297.5	144.4	639.4	155.8	246.3	0.0	597.5	0.0	18.0	21.4	21.4
Spec Sheet Total Volume [m ³]			0.0	1,239.3	144.4	639.4	155.8	246.3	0.0	597.5	0.0	18.0	21.4	21.4

*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.



KONGSBERG

DP Capability Plot
VMW618

Case number : 4
Case description : All thrusters enabled, 1kt of current
Thrusters active : T1-T4
Rudders active :

Version : StatCap v. 2.9.0
Input file reference : Foot_2479_RevB.scp
Last modified : 2013-11-26 13.49

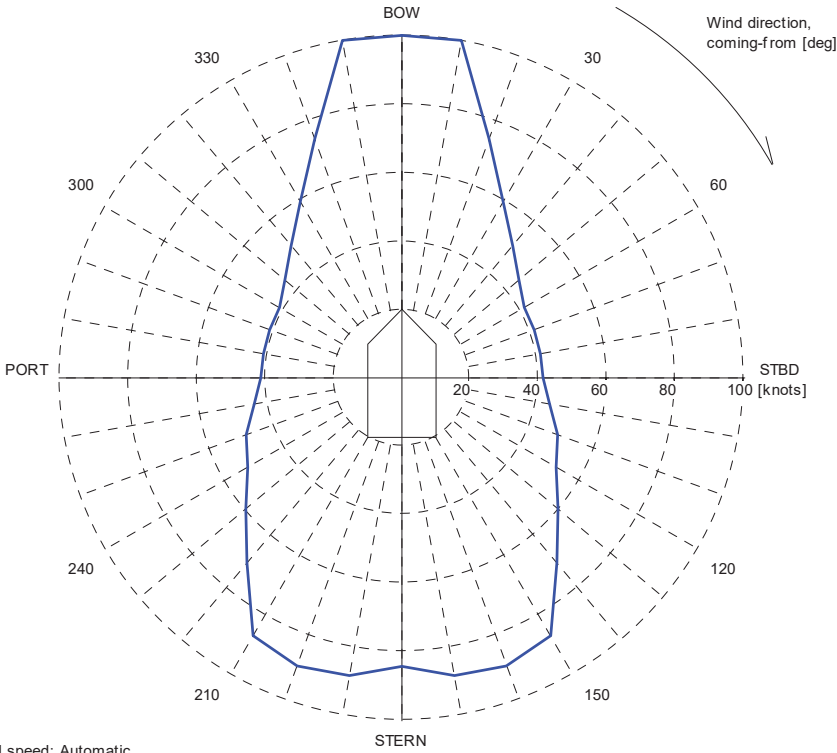
Length overall : 70.0 m
Length between perpendiculars : 61.6 m
Breadth : 16.8 m
Draught : 6.3 m
Displacement : 4600.0 t (Cb = 0.69)
Longitudinal radius of inertia : 15.4 m (= 0.25 * Lpp)
Pos. of origin ahead of Lpp/2 (Xo) : 0.0 m
Wind load coefficients : Calculated (Blendermann)
Current load coefficients : Calculated (Strip-theory)
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

Table with 8 columns: # Thruster, X [m], Y [m], F+ [tf], F- [tf], Max [%], Pe [kW], Rudder. It lists data for 4 thrusters: 1 TUNNEL, 2 TUNNEL, 3 AZIMUTH, and 4 AZIMUTH.

VARIABLE WIND AND WAVES
Limiting 1 hour mean wind speed in knots
at 10 m above sea level



Wind speed: Automatic
Significant wave height: Gulf of Mexico
Mean zero up-crossing period: Gulf of Mexico

Rotating tidal current: 1.00 knots
Rotating wind induced current: 0.000*Uwi knots