

# STEPHEN WALLACE DICK



HART TIDE as shown, STEPHEN WALLACE DICK similar

## MMC-887 HYBRID PLATFORM SUPPLY VESSEL

### Vessel Characteristics

Length, Overall:	285.8 ft	871 m
Beam:	61.7 ft	18.8 m
Depth:	24.3 ft	7.4 m
Maximum Draft:	20 ft	6.1 m
Light Draft:	7.6 ft	2.3 m
Minimum Height:	91.2 ft	27.8 m
Freeboard:	4.6 ft	1.4 m
Displacement:	7,600 lt	7,720 mt
Deadweight:	5,060 lt	5,140 mt
Clear Deck Space:	177 x 52 ft	54 x 16 m
Clear Deck Area:	9,470 ft <sup>2</sup>	880 m <sup>2</sup>
Deck Strength AFT:	1,020 lb/ft <sup>2</sup>	5 t/m <sup>2</sup>
Class Notations:	ABS: +A1, (E), +AMS, +DPS-2, FFV-1, OSV, ESS-LiBATTERY, RW, UWILD	

### Capacities

Deck Cargo:	2,800 lt	2,840 t
Fuel Oil:	240,000 gal	910 m <sup>3</sup>
Potable Water:	44,300 gal	170 m <sup>3</sup>
Fresh Water:	530,000 gal	2,010 m <sup>3</sup>
Drill/Ballast Water:	86,700 gal	330 m <sup>3</sup>
Bulk Tanks (5 tanks):	14,700 ft <sup>3</sup>	420 m <sup>3</sup>
Liquid Mud (2.4 SG*):	15,200 bbl	2,410 m <sup>3</sup>
*Max Structural Specific Gravity		
Methanol:	2,700 bbl	430 m <sup>3</sup>

## TIDEWATER

Find out more

[tdw.com](https://tdw.com)

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.



Machinery

Diesel Electric Hybrid Vessel	750 kWh Battery		
Propulsive/Total HP:	5,360 / 10,200		
Z-Drives:	Yes		
Propellers (2):	4-Blade FP Rolls-Royce		
Kort Nozzles:	2		
Primary Generators (4):	1,820 kw	480 v	60 hz
Driven by:	Cummins QSK60-D(M)		
Emergency Generators (1):	150 kw	480 v	60 hz
Driven by:	Cummins 6CTA8.3-D(M)		
Bow Thruster (2):	1220 Hp CPP TT, 1073 Hp CPP DD		
Driven by:	Electric Motor Driven		
Total Thrust:	28.7 st	26 mt	

Deck Equipment

Anchors (2):	5456 lbs HHP
Anchor Chain:	250 m of 50 mm chain per side
Windlass:	Electric, 65/32 kn @10/20 m/m
Crane (1):	2 t @ 10.1 m
Capstans (2):	7.5 t Electric, 328 ft. of .5 in.
Tugger (2):	10 t ELECTRIC, PLIMSOLL

Accommodations

No. of Berths:	52
Cabins:	16x1-man, 10x2-man & 4x4-man
Certified to Carry:	52
Galley seating:	30
Hospital:	Yes

Registration

Flag: VANUATU	Home Port: PORT VILA
Hull Number: 1911	IMO N <sup>o</sup> : 9533658
Year Built: 2011	Call Sign: YJRS5
Builder:	FUJIAN MAWEI
Tonnage (ITC):	3601 GT 1429 NT

Performance\*

Fuel Consumption Vs Speed		
Maximum:	28 m³/day (310 gph) @ 14 knots	
Cruising:	12.5 m³/day (140 gph) @ 10 knots	
Economical:	10 m³/day (110 gph) @ 8 knots	
Standby:	2.3 m³/day (25 gph) @ 0 knots	
Range @ 10 Knots:	17,400 nm	
Transfer Rates		
Fuel Oil:	660 gpm @ 300 ft	150 m³/h @ 92 m
Fresh Water:	660 gpm @ 300 ft	150 m³/h @ 92 m
Drill/Ballast Water:	660 gpm @ 300 ft	150 m³/h @ 92 m
Bulk:	49 cfm @ 180 ft	83.2 m³/h @ 56 m
Liquid Mud:	660 gpm @ 190 ft	150 m³/h @ 58 m
Methanol:	330 gpm @ 300 ft	75 m³/h @ 92 m

Nav/Comms Equipment

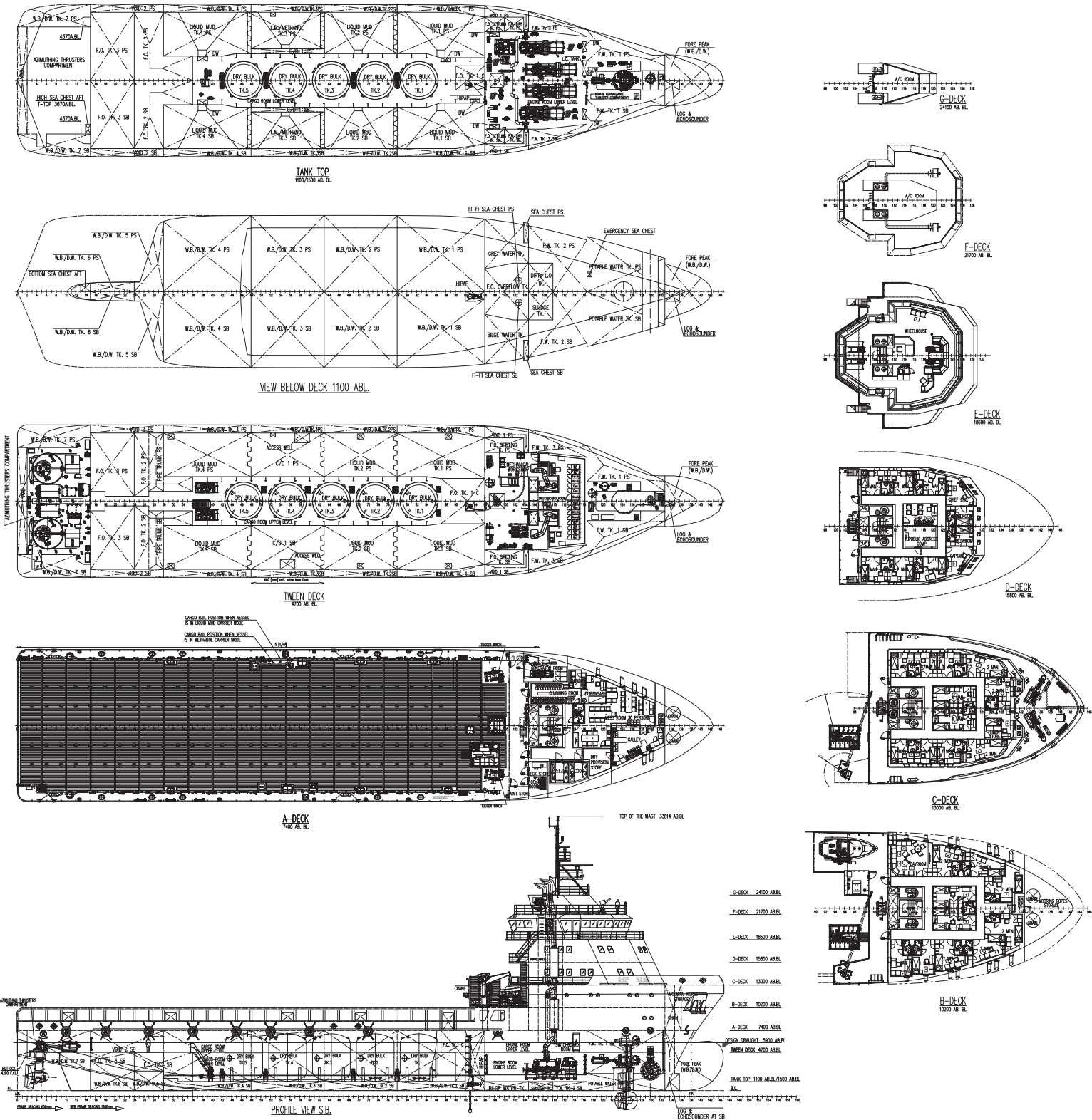
Radar(s):	2
Depth Sounder:	1
Cyro Compass:	3
Wind Speed Indicators:	3
Doppler Log:	1
Radio:	3 x VHF; 1 x SSB

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
Mud Circulation System/ Mud Mixers:	Yes/Yes
Tank Cleaning:	Yes
Rescue Boat:	FRSQ 700 A
Fuel Monitoring:	FuelTrax
Reefer Sockets:	2x 480V 32A
Misc:	SEWAGE TREATMENT - 60 Persons

\*Approximate values assuming Ideal Conditions







Tank Table														
Tank	Contents	Volume m <sup>3</sup>	Base Oil	Fuel Oil	Dry Bulk	DW/WB	Potable Water	Fresh Water	Brine	Liquid Mud	Methanol	Lube Oil	Foam	Oil Disp.
Fore Peak	DW/WB	184.0				184.0								
WB/DW Tk 1 PS	DW/WB	184.0				184.0		184.0						
WB/DW Tk 1 SB	DW/WB	180.9				180.9		180.9						
WB/DW Tk 2 PS	DW/WB	152.5				152.5		152.5						
WB/DW Tk 2 SB	DW/WB	152.5				152.5		152.5						
WB/DW Tk 3 PS	DW/WB	150.9				150.9		150.9						
WB/DW Tk 3 SB	DW/WB	150.9				150.9		150.9						
WB/DW Tk 4 PS	DW/WB	165.9				165.9		165.9						
WB/DW Tk 4 SB	DW/WB	165.9				165.9		165.9						
WB/DW Tk 5 PS	DW/WB	42.4				42.4		42.4						
WB/DW Tk 5 SB	DW/WB	42.4				42.4		42.4						
WB/DW Tk 6 PS	DW/WB	57.8				57.8		57.8						
WB/DW Tk 6 SB	DW/WB	57.8				57.8		57.8						
WB/DW Tk 7 PS	DW/WB	75.0				75.0								
WB/DW Tk 7 SB	DW/WB	69.3				69.3								
FW Tk 1 PS	FW	129.7						129.7						
FW Tk 1 SB	FW	129.7						129.7						
FW Tk 2 PS	FW	40.5						40.5						
FW Tk 2 SB	FW	40.5						40.5						
FW Tk 3 PS	FW	80.9						80.9						
FW Tk 3 SB	FW	80.9						80.9						
Potable Water Tk PS	Ships FW	83.7					83.7							
Potable Water Tk SB	Ships FW	84.1					84.1							
FO Overflow Tk	FO	35.9		35.9										
FO Day Tk PS	FO	15.2		15.2										
FO Day Tk SB	FO	15.2		15.2										
FO Settling Tk PS	FO	38.1		38.1										
FO Settling Tk SB	FO	38.1		38.1										
FO Tk 1 C	FO	100.3		100.3										
FO Tk 2 PS	FO	183.8		183.8										
FO Tk 2 SB	FO	183.8		183.8										
FO Tk 3 PS	FO	182.6		182.6										
FO Tk 3 SB	FO	182.6		182.6										
Liquid Mud Tk 1 PS	LM	362.0								362.0				
Liquid Mud Tk 1 SB	LM	362.0								362.0				
Liquid Mud Tk 2 PS	LM	286.8								286.8				
Liquid Mud Tk 2 SB	LM	286.8								286.8				
Liquid Mud Tk 4 PS	LM	341.3								341.3				
Liquid Mud Tk 4 SB	LM	341.3								341.3				
LM/Methanol Tk 3 PS	LM/METH	214.7								214.7	214.7			
LM/Methanol Tk 3 SB	LM/METH	214.7								214.7	214.7			
Lube Oil Tk	LO	1.9										1.9		
Dry Bulk Tk 1	Dry Bulk	83.2			83.2									
Dry Bulk Tk 2	Dry Bulk	83.2			83.2									
Dry Bulk Tk 3	Dry Bulk	83.2			83.2									
Dry Bulk Tk 4	Dry Bulk	83.2			83.2									
Dry Bulk Tk 5	Dry Bulk	83.2			83.2									
Total Volume [m <sup>3</sup> ]			0.0	975.8	415.8	1,832.2	167.9	2,006.2	0.0	2,409.7	429.4	1.9	0.0	0.0
Spec Sheet Total Volume [m <sup>3</sup> ]			0.0	909.4	415.8	328.3	167.9	2,006.2	0.0	2,409.7	429.4	1.9	0.0	0.0

\*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.



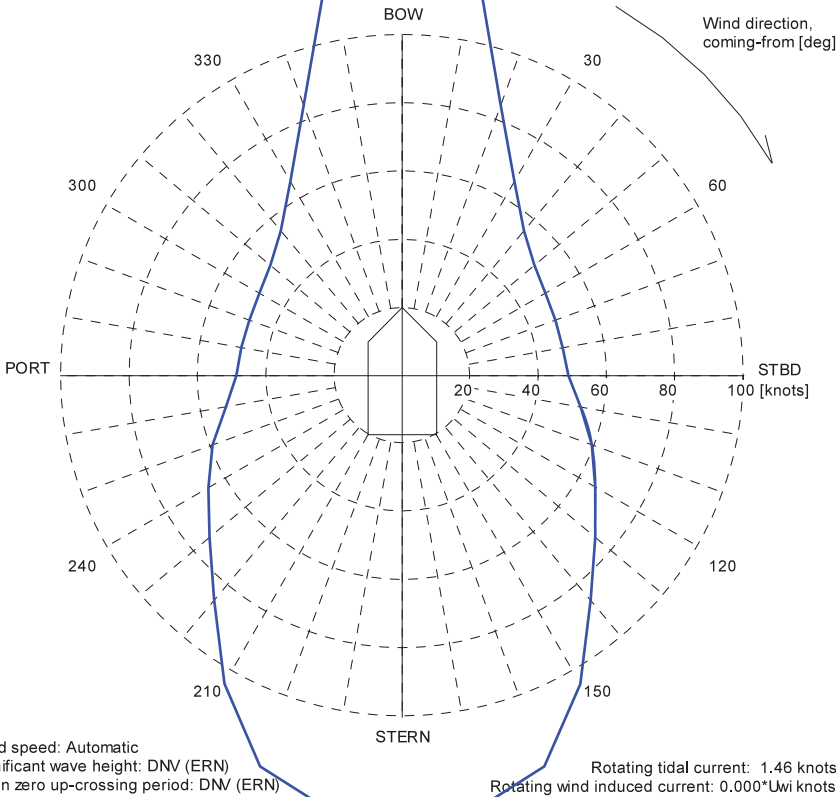
KONGSBERG

DP Capability Plot  
MAWEI 619-1

Case number : 1  
Case description :  
Thrusters active : T1-T4  
Rudders active :

Input file reference	: foot_3398_Ascp
Last modified	: 2010-03-01 08.48 (v. 2.7.2)
Length overall	: 87.0 m
Length between perpendiculars	: 83.0 m
Breadth	: 18.8 m
Draught	: 5.9 m
Displacement	: 6900.0 t (Cb = 0.73)
Longitudinal radius of inertia	: 20.8 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

VARIABLE WIND AND WAVES  
Limiting 1 minute mean wind speed in knots at 10 m above sea level  
ERN (99, 99, 86).  
ERN are subject to DNV approval



# Thruster	X [m]	Y [m]	F+ [tf]	F- [tf]	Max [%]	Pe [kW]	Rudder
1 TUNNEL	34.7	0.0	13.6	-13.6	100	910	
2 AZIMUTH	31.8	0.0	14.1	-8.7	100	800	
3 AZIMUTH	-40.0	-4.0	35.4	-21.8	100	2000	
4 AZIMUTH	-40.0	4.0	35.4	-21.8	100	2000	