

HIGHLAND GUARDIAN



MMC 887 CD PLATFORM SUPPLY VESSEL

Vessel Characteristics

Length, Overall:	286.4 ft	87.3 m
Beam:	61.7 ft	18.8 m
Depth:	24.3 ft	7.4 m
Maximum Draft:	19.7 ft	6 m
Light Draft:	8.9 ft	2.7 m
Minimum Height:	91.4 ft	27.9 m
Freeboard:	4.3 ft	1.3 m
Displacement:	7,590 lt	7,710 mt
Deadweight:	4,870 lt	4,950 mt
Clear Deck Space:	195 x 52 ft	60 x 16 m
Clear Deck Area:	9,930 ft ²	920 m ²
Deck Strength AFT:	1,020 lb/ft ²	5 t/m ²
Class Notations:	DNV: +1A, Fire Fighter(I), Offshore Support Vessel, BIS, CLEAN, DPS(2), E0, OILREC FP > 60°C	

Capacities

Deck Cargo:	2,360 lt	2,400 t
Fuel Oil:	234,000 gal	880 m ³
Potable Water:	28,300 gal	110 m ³
Fresh Water:	222,000 gal	840 m ³
Drill/Ballast Water:	589,000 gal	2,230 m ³
Bulk Tanks (5 tanks):	15,000 ft ³	420 m ³
Liquid Mud (2.4 SG*):	13,000 bbl	2,060 m ³
*Max Structural Specific Gravity		
Methanol:	2,110 bbl	340 m ³
Base Oil:	1,450 bbl	230 m ³

TIDEWATER

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Pg.2 Further Specifications
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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.

LAST UPDATE: 11/22/2023



Machinery

Diesel Electric Vessel			
Propulsive/Total HP:	5,360 / 9,570		
Z-Drives:	Yes		
Propellers (2):	2000kW SRP 1515 FPP		
Kort Nozzles:	2		
Primary Generators (4):	1,700 kw	690 v	60 hz
Driven by:	CAT 3512C		
Emergency Generators (1):	350 kw	690 v	60 hz
Driven by:	GASI 12-06E		
Bow Thruster (2):	Tunnel/Retractable Azimuth		
Driven by:	910 kW /800 kW Electric Motor		
Total Thrust:	28.7 st	26 mt	

Deck Equipment

Anchors (2):	2,520 KG HHP ANCHORS
Anchor Chain:	250 m of 50.8 mm chain per side
Windlass:	NDM HYDRAULIC, 15.3T @ 12 M/MIN
Crane (1):	3 t @ 10 m
Aux. Crane (1):	3 t @ 10 m
Capstans (2):	8 t Vertical NDM (24 m/min)
Tugger (2):	10 t NDM TU10-1D (13.7 M/MIN)

Accommodations

No. of Berths:	40
Cabins:	14x1-man & 13x2-man
Certified to Carry:	40
Galley seating:	24
Hospital:	Yes

Registration

Flag: UNITED KINGDOM	Home Port: LONDON
Hull Number: 85002	IMO N ^o : 9639347
Year Built: 2013	Call Sign: 2FUB9
Builder:	REMONTOWA SHIPBUILDING S.
Tonnage (ITC):	4149 GT 1740 NT

Performance*

Fuel Consumption Vs Speed		
Maximum:	23.4 m³/day (260 gph) @ 14.5 knots	
Cruising:	12.9 m³/day (140 gph) @ 10 knots	
Economical:	7.3 m³/day (80 gph) @ 8 knots	
Standby:	1.5 m³/day (17 gph) @ 0 knots	
Range @ 10 Knots:	16,400 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:	49.9 cfm @ 190 ft	84.7 m³/h @ 57 m
Liquid Mud:	340 gpm @ 470 ft	78 m³/h @ 140 m
Base Oil:	440 gpm @ 300 ft	100 m³/h @ 92 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
Sat Com:	SATCOM C

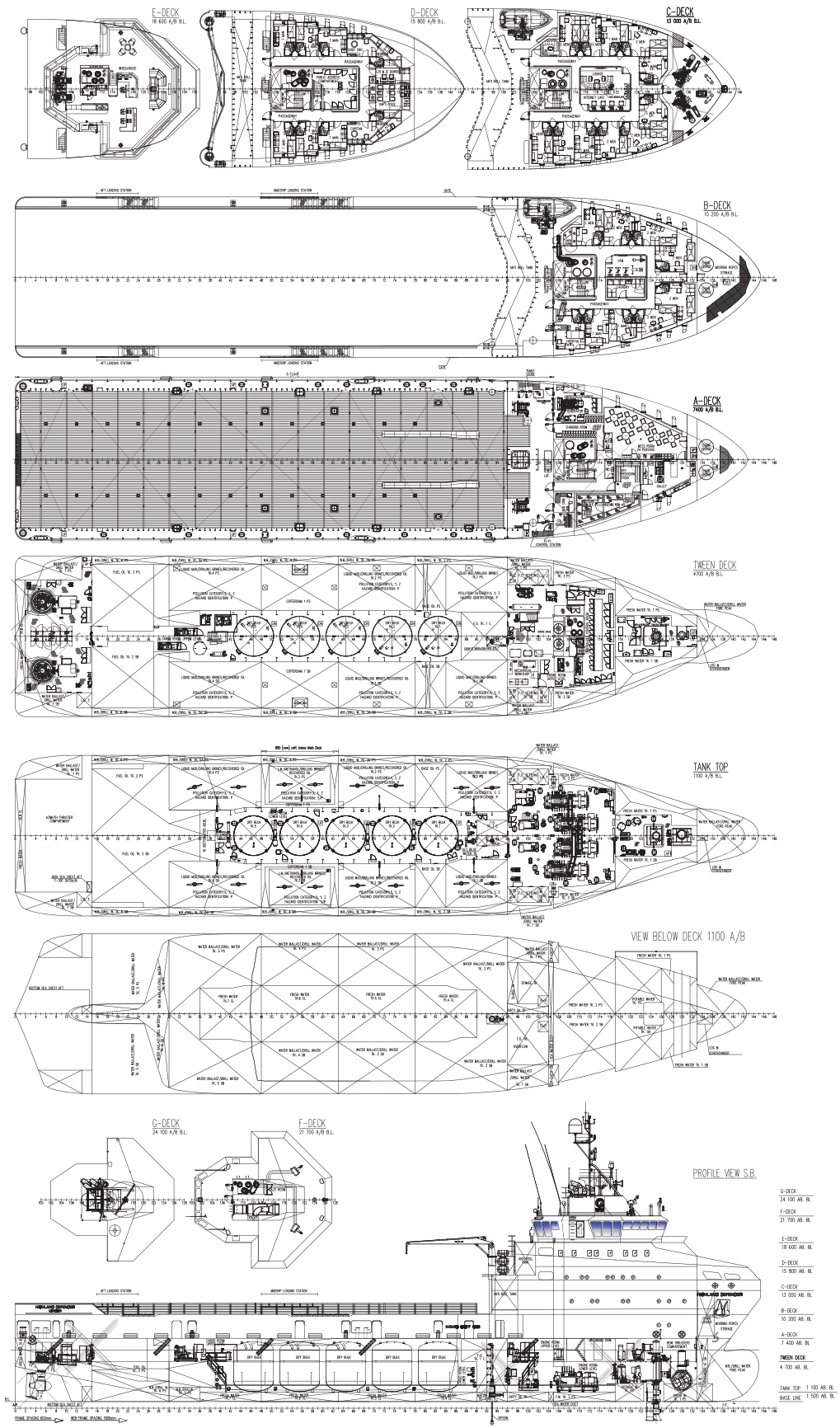
Special Equipment

Firefighting:	FiFi-1
Dynamic Positioning:	DP-2
Ref. Systems:	3 x MRU; 3 x DGPS 1 x Microwave-based
Mud Circulation System/ Mud Mixers:	Yes/Yes
Tank Cleaning:	Yes
Rescue Boat:	6-Man MERLIN 615 FRB
Reefer Sockets:	10x 110V 32A; 5x 440V 32A; 5x 220V 32A
SPS Compliant:	Yes
Misc:	MSD - 30 Persons; ORO Capacity - 1585.3 m³; DACON SCOOP

*Approximate values assuming Ideal Conditions

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General Arrangement (Current configuration may vary.)





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.
W.B./D.W. TK FORE PEAK	DW/WB	184.1				184.1								
W.B./D.W. TK 1 PS	DW/WB	51.2				51.2								
W.B./D.W. TK 1 SB	DW/WB	51.2				51.2								
W.B./D.W. TK 2 PS	DW/WB	160.2				160.2								
W.B./D.W. TK 2 SB	DW/WB	157.1				157.1								
W.B./D.W. TK 3 PS	DW/WB	69.6				69.6								
W.B./D.W. TK 3 SB	DW/WB	69.6				69.6								
W.B./D.W. TK 3A PS	DW/WB	52.0				52.0								
W.B./D.W. TK 3A SB	DW/WB	52.0				52.0								
W.B./D.W. TK 4 PS	DW/WB	119.8				119.8								
W.B./D.W. TK 4 SB	DW/WB	119.8				119.8								
W.B./D.W. TK 5 PS	DW/WB	98.7				98.7								
W.B./D.W. TK 5 SB	DW/WB	98.7				98.7								
W.B./D.W. TK 5A PS	DW/WB	60.6				60.6								
W.B./D.W. TK 5A SB	DW/WB	60.6				60.6								
W.B./D.W. TK 6 PS	DW/WB	148.3				148.3								
W.B./D.W. TK 6 SB	DW/WB	148.3				148.3								
W.B./D.W. TK 7 PS	DW/WB	70.6				70.6								
W.B./D.W. TK 7 SB	DW/WB	70.8				70.8								
ANTI-ROLL TK 1	DW/WB	162.4				162.4								
ANTI-ROLL TK 2	DW/WB	223.3				223.3								
F.W. TK 1 PS	FW	155.3						155.3						
F.W. TK 1 SB	FW	157.5						157.5						
F.W. TK 2 PS	FW	50.5						50.5						
F.W. TK 2 SB	FW	50.5						50.5						
F.W. TK 3 PS	FW	77.7						77.7						
F.W. TK 3 SB	FW	77.7						77.7						
F.W. TK 4 CL	FW	48.3						48.3						
F.W. TK 5 CL	FW	64.0						64.0						
F.W. TK 6 CL	FW	64.0						64.0						
F.W. TK 7 CL	FW	45.7						45.7						
F.W. TK 8 CL	FW	48.2						48.2						
P.W. TK PS	Ship's FW	53.6					53.6							
P.W. TK SB	Ship's FW	53.6					53.6							
F.O. TK 1 C	FO	95.3		95.3										
F.O. TK 2 PS	FO	373.6		373.6										
F.O. TK 2 SB	FO	362.1		362.1										
F.O. SETTLING TK PS	FO	26.7		26.7										
F.O. SETTLING TK SB	FO	26.7		26.7										
F.O. DAY TK PS	FO	13.3		13.3										
F.O. DAY TK SB	FO	13.3		13.3										
BASE OIL TK PS	BO	115.3	115.3											
BASE OIL TK SB	BO	115.3	115.3											
L.M. TK 1 PS	LM	237.5								237.5				
L.M. TK 1 SB	LM	237.5								237.5				
L.M./R.O. T2 PS	LM/ORO	287.5								287.5				
L.M./R.O. T2 SB	LM/ORO	287.5								287.5				
L.M./R.O. T4 PS	LM/ORO	337.4								337.4				
L.M./R.O. T4 SB	LM/ORO	337.4								337.4				
L.M./MET/R.O. T3PS	LM/METH/ORO	167.8								167.8	167.8			
L.M./MET/R.O. T3SB	LM/METH/ORO	167.8								167.8	167.8			
DRY BULK TANK NO.1	DRY BULK	84.9			84.9									
DRY BULK TANK NO.2	DRY BULK	84.8			84.8									
DRY BULK TANK NO.3	DRY BULK	85.0			85.0									
DRY BULK TANK NO.4	DRY BULK	84.9			84.9									
DRY BULK TANK NO.5	DRY BULK	84.7			84.7									
L.O. TK 1	LO	7.6										7.6		
L.O. TK 2	LO	5.7										5.7		
L.O. TK 3	LO	14.1										14.1		
Total Volume [m ³]			230.6	910.9	424.2	2,228.8	107.3	839.4	0.0	2,060.2	335.5	27.4	0.0	0.0
Spec Sheet Total Volume [m ³]			230.6	884.2	424.2	2,228.8	107.3	839.4	0.0	2,060.2	335.5	27.4	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.



Ship: Remontowa PSV 850/1 & 850/2
Run : All Thrusters Online at 0, 1 & 2 knots of Current

