HIGHLAND PRINCESS





UT 755 XL PLATFORM SUPPLY VESSEL

Vessel Characteristics

Length, Overall:	246.1 ft	75 m				
Beam:	52.5 ft	16 m				
Depth:	23 ft	7 m				
Maximum Draft:	19.2 ft	5.9 m				
Light Draft:	8.9 ft	2.7 m				
Minimum Height:	81 ft	24.7 m				
Freeboard:	3.8 ft	1.2 m				
Displacement:	4,920 lt	5,000 mt				
Deadweight:	3,020 lt	3,060 mt				
Clear Deck Space:	175 x 44 ft	53 x 14 m				
Clear Deck Area:	7,730 ft²	720 m ²				
Deck Strength AFT:	1,020 lb/ft²	5 t/m²				
Class Notations:	ABS: +A1, FFV 1, OSR-C1, Offshore Support Vessel, (E), +AMS, +ACCU, GP, UWILD					

Capacities

Deck Cargo:	1,550 lt	1,570 t
Fuel Oil:	222,000 gal	840 m ³
Potable Water:	59,800 gal	230 m ³
Fresh Water:	144,000 gal	540 m ³
Drill/Ballast Water:	195,000 gal	740 m ³
Bulk Tanks (5 tanks):	11,300 ft³	320 m ³
Liquid Mud (2.5 SG*): *Max Structural Specific Gravity	6,280 bbl	1000 m ³
Base Oil:	1,750 bbl	280 m ³
Oil Dispersant:	2,590 gal	9.8 m³

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HIGHLAND PRINCESS Further specifications



Machinery

Main Engines (2):	GE 16V228 MDF					
Total HP:	7,480					
Propellers (2):	Kamewa Ulstein CPP					
Primary Generators (2):	300 kw 450 v 60					
Driven by:	DIESEL ENGINE					
Secondary Generators (2):	1,800 kw 450 v 60					
Driven by:	MAIN ENGINE					
Emergency Generators (1):	120 kw	450 v	60 hz			
Driven by:	DIESEL ENGINE					
Bow Thruster (2):	ROLLS ROYCE TT 1650 DPN CP					
Driven by:	885 BHP (660 Kw) ELECTRIC MOTOR					
Total Thrust:	22.1 st 20 r					
Stern Thruster (2):	ROLLS ROYCE TT 1650 DPN CP					
Driven by:	791 BHP (590 Kw) ELECTRIC MOTOR					
Total Thrust:		19.8 st	18 mt			

Deck Equipment

Anchors (2):	2,685 KG NORMAL HOLDING POWER ANCHOR
Anchor Chain:	250 m of 40 mm chain per side
Windlass:	BRATTVAAG LB.GX41.038, 8T @ 0-10.2 m/min
Crane (1):	6 t @ 16 m
Capstans (2):	8 t BRATTVAAG/LC.CX22009
Tugger (2):	10 t BRATTVAAG/LAKMX22010

Accommodations

No. of Berths:	24
Cabins:	8x1-man & 8x2-man
Certified to Carry:	24
Galley seating:	14
Hospital:	Yes

Registration

Flag: VANUATU	F	Iome Port: PORT VILA					
Hull Number: 111		IMO N ^o : 9643867					
Year Built: 2014		Call Sign: YJXH4					
Builder:	ROSETTI MARINO SPA						
Tonnage (ITC):	2202 GT	783 NT					

*Approximate values assuming Ideal Conditions

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27.8 m³/day (310 gph) @ 14.5 knots						
11.7 m³/day (130 gph) @ 10 knots						
7.8	7.8 m³/day (86 gph) @ 8 knots					
1.5 m³/day (17 gph) @ 0 knots						
17,200 nm						
880 gpm @ 300 ft	200 m³/h @ 92 m					
880 gpm @ 300 ft	200 m³/h @ 92 m					
660 gpm @ 300 ft	150 m³/h @ 92 m					
37.6 cfm @ 190 ft	63.9 m³/h @ 57 m					
440 gpm @ 600 ft	100 m³/h @ 180 m					
400 gpm @ 300 ft	90 m³/h @ 92 m					
440 gpm @ 600 ft	100 m³/h @ 180 m					
	27.8 m³, 11.7 m 7.8 1.5 880 gpm @ 300 ft 880 gpm @ 300 ft 660 gpm @ 300 ft 37.6 cfm @ 190 ft 440 gpm @ 600 ft 440 gpm @ 300 ft					

Nav/Comms Equipment

Radar(s):	2
Depth Sounder:	1
Gyro Compass:	3
Wind Speed Indicators:	3
Doppler Log:	1
Radio:	3 x VHF; 1 x SSB
Sat Com:	KU BAND SATELITE COMMUNICATIONS SYSTEM

Special Equipment

Firefighting:	FiFi-1
Dynamic Positioning:	DP-2
Ref. Systems:	3 x MRU; 2 x DGPS 1 x Microwave-based; 1 x Laser-based
Mud Circulation System/ Mud Mixers:	Yes/Yes
Tank Cleaning:	Yes
Rescue Zone:	Yes
Rescue Boat:	6 PERSON FRC
Fuel Monitoring:	FUELTRAX
Gas Detection:	FIXED GAS DETECTION + 2XPORTABLE SENSORS
Reefer Sockets:	12x 110V 32A; 2x 220V 50A; 2x 440V 50A
Misc:	ORO CAPACITY: 798.6 m3; Winching Zone; Power pack for OSR equipment, Food Waste Grinder; MSD - 42 Persons; Eye Wash Stations, Fixed Aviation VHF

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General Arrangement (Current configuration may vary.)





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HIGHLAND PRINCESS Capacity Table



Tank	Contents	Volume 3	Base	Fuel	Dry	DW/WB	Potable	Fresh	Brine	Liquid	Methanol	Lube	Foam	Oil
	DIALAND	m ²		OII	вик	00.5	water	water		Mua		OII		Disp.
	DW/WB	96.5				96.5								
04 DB/WING TK 2 SB	DW/WB	60.9				50.3								
05 DB/WING TK 2 PS	DW/WB	50.7				50.7 70.4								
00 DB/WING TK 4 SB	DW/WB	79.4				79.4								
29 STAD TK NO 2	DW/WB	142 /				112 /								
20 STAB IK NO J	DW/WB	112.4				166.4								
EO STAD TK NO 2		472.4				173.4		173.1						
EI STAD TK NO I		164.2				164.2		164.2						
67 AET DEAK TK DS	EW	104.2				46.1		46 1						
69 AFT PEAK TK SP	EW	46.1				46.1		46.1						
02 DB/WING TK 1 SB	Shin's FW	118 7					118.7	4011						
03 DB/WING TK 1 DS	Shin's FW	107.6					107.6							
14 WING TK 8 SB	FW	58.7					10110	58.7						
16 WING TK 9 SB	FW	33.4						33.4						
17 WING TK 9 PS	FW	33.4						33.4						
18 DB/WING TK 8 PS	FW	81.6						81.6						
06 DB TK 3 SB	FO	37.0		37.0				••						
07 DB/WING TK 3 PS	FO	40.9		40.9										
08A DB/WING TK 5 SB	FO	67.0		67.0										
09A DB/WING TK 5 PS	FO	67.0		67.0										
10 DB TK 6 SB	FO	49.1		49.1										
10A WING TK 6 SB	FO/BO	54.7	54.7	54.7										
11 DB TK 6 PS	FO	49.1		49.1										
11A DB TK 6 PS	FO/BO	54.7	54.7	54.7										
12 DB TK 7 SB	FO	51.3		51.3										
12A WING TK 7 SB	FO/BO	84.0	84.0	84.0										
13 DB TK 7 PS	FO	51.3		51.3										
13A WING TK 7 PS	FO/BO	84.0	84.0	84.0										
30 FO SERV TK SB	FO	41.6		41.6										
30A FO SETL TK SB	FO	16.2		16.2										
31 FO SERV TK PS	FO	41.6		41.6										
37 FO DRAIN TK	FO	5.3		5.3										
44 FO OVERFLOW TK	FO	42.4		42.4										
70 WING TK 3 PS	FO	74.2		74.2										
60 WING TK 3 SB	FO	59.2		59.2										
19 CIRCULAR TK. NO. 1	LM/BR/DW/WB	99.6				99.6				99.6				
19A CIRCULAR TK. NO. 3	LM/BR/DW/WB/ORO	99.8				99.8				99.8				
20 CIRCULAR TK. NO. 2	LM/BR/DW/WB	99.6				99.6				99.6				
20A CIRCULAR TK. NO. 4	LM/BR/DW/WB/ORO	99.8				99.8				99.8				
21 CIRCULAR TK. NO. 5	LM/BR/ORO	99.8								99.8				
22 CIRCULAR TK. NO. 6	LM/BR/ORO	99.8								99.8				
23 CIRCULAR TK. NO. 7	LM/BR/ORO	99.8								99.8				
24 CIRCULAR TK. NO. 8	LM/BR/ORO	99.8								99.8				
25 CIRCULAR TK. NO. 9	LM/ORO	99.8								99.8				
26 CIRCULAR TK. NO. 10	LM/ORO	99.8								99.8				
61 CEMENT TK. 1A	Dry Bulk	63.9			63.9									
62 CEMENT TK. 1	Dry Bulk	63.9			63.9									
63 CEMENT TK. 2	Dry Bulk	63.9			63.9									
64 CEMENT TK. 3	Dry Bulk	63.9			63.9									
65 CEMENT TK. 5	Dry Bulk	63.9			63.9									
45 DISPERSANT TK	DISP	9.8												9.8
32 LO STORE TK	LO	11.1										11.1		
34 LO STORES AUX ENG	LO	3.7										3.7		
35 LO STORES TK THR	LO	3.7										3.7		
	Total Vo	lume [m ³]	277.5	970.7	319.5	1,474.1	226.3	636.7	0.0	997.9	0.0	18.6	0.0	9.8
	Spec Sheet Total Vo	lume [m ³]	277.5	839.7	319.5	737.9	226.3	544.4	0.0	997.9	0.0	18.6	0.0	9.8

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

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

 $^{*}\mbox{Capacities shown in BLUE}$ are included in another Tank's Capacity.

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

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HIGHLAND PRINCESS DP Capability Plot





Figure 11: DP capability envelope for case 1.

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