



LIQUIGAN TIDE as shown, SHAW TIDE similar

MMC 879 PLATFORM SUPPLY VESSEL

Vessel Characteristics

Length, Overall:	260.8 ft	79.5 m
Beam:	55.1 ft	16.8 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:	86.6 ft	26.4 m
Freeboard:	4.6 ft	1.4 m
Displacement:	6,370 lt	6,470 mt
Deadweight:	3,820 lt	3,880 mt
Clear Deck Space:	187 x 46 ft	57 x 14 m
Clear Deck Area:	8,440 ft ²	780 m ²
Usable Deck Area:	6,890 ft ²	640 m ²
Deck Strength FWD:	1,020 lb/ft ²	5 t/m ²
Deck Strength AFT:	1,430 lb/ft ²	7 t/m ²
Class Notations:	ABS: +A1, FFV-1, OSV, (E), +AMS, +ACCU, +DPS-2, UWILD, ENVIRO, SPS, OSR-C2, GP	

Capacities

Deck Cargo:	1,080 lt	1,100 t
Fuel Oil:	181,000 gal	690 m ³
Potable Water:	33,100 gal	130 m ³
Fresh Water:	118,000 gal	440 m ³
Drill/Ballast Water:	461,000 gal	1,750 m ³
Bulk Tanks (5 tanks):	8,190 ft ³	230 m ³
Liquid Mud (2.8 SG*):	8,000 bbl	1,270 m ³
<small>*Max Structural Specific Gravity</small>		
Methanol:	1,280 bbl	200 m ³
Oil Dispersant:	1,120 gal	4.2 m ³
Fire Fighting Foam:	1,120 gal	4.2 m ³

TIDEWATER

Find out more

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Pg.2 Further Specifications
Pg.3 General Arrangement

Pg.4 Capacity Table
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Machinery

Diesel Electric Vessel			
<i>Propulsive/Total HP:</i>	6,700 / 11,900		
Z-Drives:	Yes		
Propellers (2):	2500kW Steerprop SP 35D		
Kort Nozzles:	2		
Primary Generators (2):	2,440 kw	690 v	60 hz
<i>Driven by:</i>	MAK 8M25C		
Secondary Generators (2):	1,820 kw	690 v	60 hz
<i>Driven by:</i>	CAT 3516B		
Emergency Generators (1):	400 kw	690 v	60 hz
<i>Driven by:</i>	CAT 3412		
Bow Thruster (2):	Rolls Royce TT1850 TT		
<i>Driven by:</i>	950 KW MOTOR		
Total Thrust:	34.8 st	31.6 mt	

Deck Equipment

Anchors (2):	2295 kg HHP
Anchor Chain:	250 m of 50 mm chain per side
Windlass:	RRM BFMG22050
Crane (1):	3 t @ 12 m
Capstans (2):	5 t RRM CMX2210
Tugger (2):	5.5 t RRM LAKMX22010

Accommodations

No. of Berths:	56
Cabins:	6x1-man & 25x2-man
Certified to Carry:	56
Galley seating:	16
Hospital:	Yes

Registration

Flag: LIBERIA	Home Port: MONROVIA
Hull Number: 1010	IMO NO: 9640281
Year Built: 2013	Call Sign: 5LRJ4
Builder:	SAIGON OFFSHORE FABRICATI
Tonnage (ITC):	3247 GT / 1257 NT

Performance*

Fuel Consumption Vs Speed		
<i>Maximum:</i>	25.1 m ³ /day (280 gph) @ 14.5 knots	
<i>Cruising:</i>	13.3 m ³ /day (150 gph) @ 10 knots	
<i>Economical:</i>	10 m ³ /day (110 gph) @ 8 knots	
<i>Standby:</i>	2.6 m ³ /day (28.6 gph) @ 0 knots	
Range @ 10 Knots:	12,300 nm	
Transfer Rates		
<i>Fuel Oil:</i>	440 gpm @ 300 ft	100 m ³ /h @ 92 m
<i>Fresh Water:</i>	440 gpm @ 300 ft	100 m ³ /h @ 92 m
<i>Drill/Ballast Water:</i>	440 gpm @ 300 ft	100 m ³ /h @ 92 m
<i>Bulk:</i>	27.3 cfm @ 190 ft	46.3 m ³ /h @ 57 m
<i>Liquid Mud:</i>	330 gpm @ 300 ft	75 m ³ /h @ 92 m
<i>Methanol:</i>	330 gpm @ 300 ft	75 m ³ /h @ 92 m

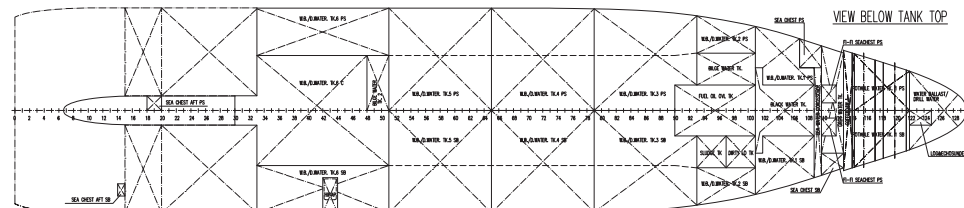
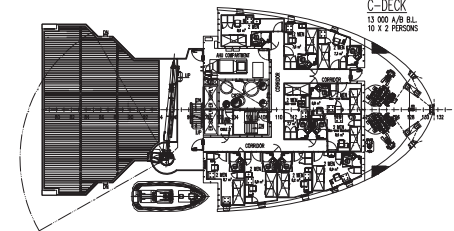
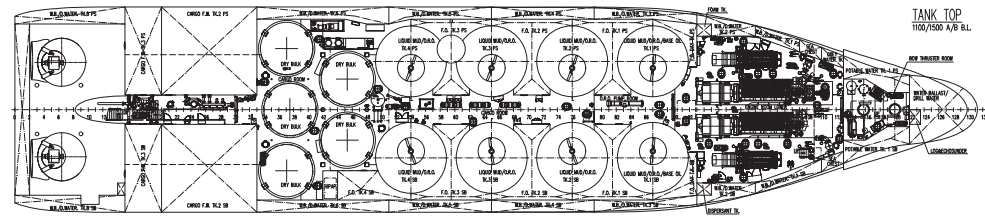
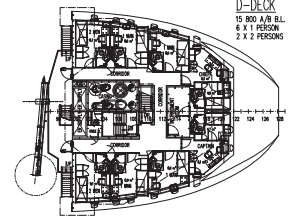
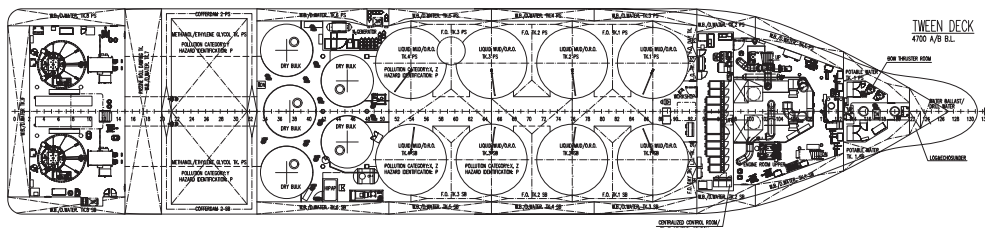
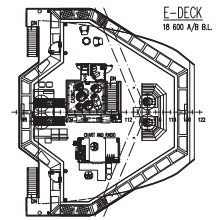
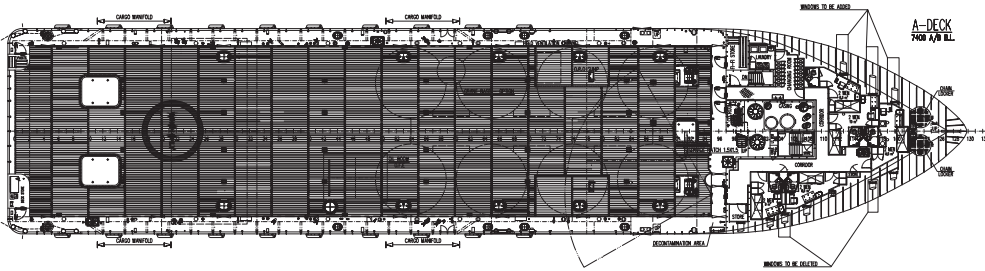
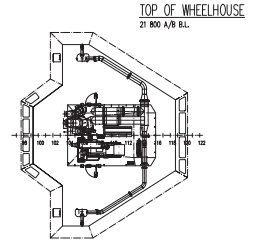
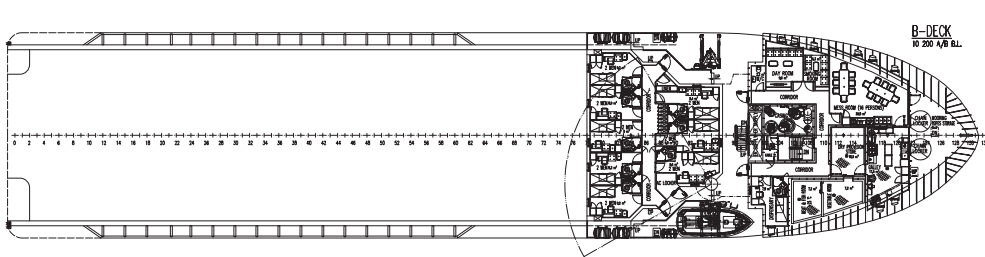
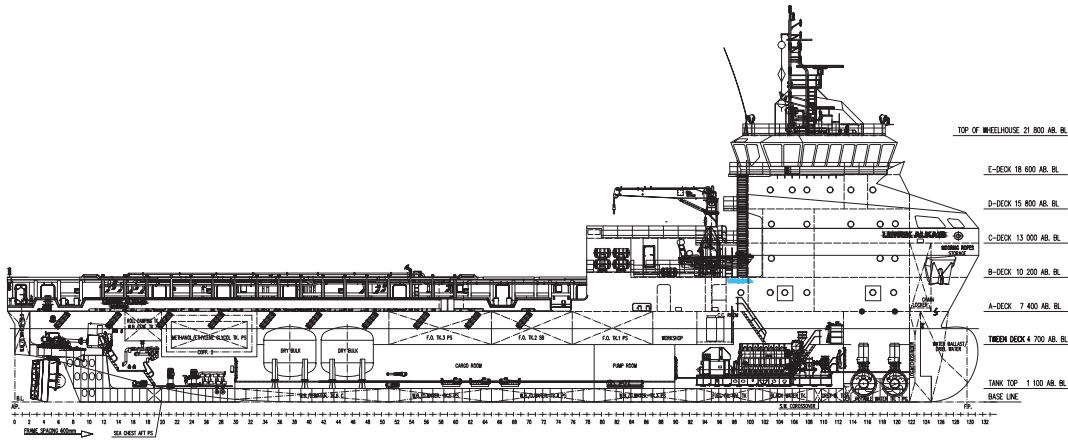
Nav/Comms Equipment

Radar(s):	2
Depth Sounder:	1
Cyro Compass:	3
Wind Speed Indicators:	3
Doppler Log:	1
Radio:	2 x VHF; 1 x SSB
Sat Com:	STARLINK; INMARSAT-C

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
Water Maker:	16 M3/DAY
Mud Mixers:	Yes
Tank Cleaning:	Yes
Rescue Boat:	15-Man FRC
Reefer Sockets:	8x 440V 40A
SPS Compliant:	Yes
Misc:	HiPAP Ready; MSD 40 persons; ORO Capacity - 1272.1 m ³ ; BLUEDRIVE; Additional FRC David PS - No FRC

*Approximate values assuming Ideal Conditions





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 Forepeak Tk	DW/WB	116.2				116.2								
WB Tk 1 PS	DW/WB	63.2				63.2								
WB Tk 1 SB	DW/WB	69.0				69.0								
WB Tk 2 PS	DW/WB	49.9				49.9								
WB Tk 2 SB	DW/WB	49.9				49.9								
WB Tk 3 PS	DW/WB	126.7				126.7								
WB Tk 3 SB	DW/WB	126.7				126.7								
WB Tk 4 PS	DW/WB	137.1				137.1								
WB Tk 4 SB	DW/WB	137.1				137.1								
WB Tk 5 PS	DW/WB	139.9				139.9								
WB Tk 5 SB	DW/WB	137.3				137.3								
WB Tk 6 PS	DW/WB	117.7				117.7								
WB Tk 6 SB	DW/WB	113.0				113.0								
WB Tk 6 C	DW/WB	106.7				106.7								
WB Tk 7 Roll Damping	DW/WB	118.5				118.5								
WB Tk 8 PS	DW/WB	41.0				41.0								
WB Tk 8 SB	DW/WB	37.8				37.8								
WB Tk 9 Afterpeak	DW/WB	58.3				58.3								
Pot Water 1 PS	Ship's FW	62.7					62.7							
Pot Water 1 SB	Ship's FW	62.7					62.7							
FW Tk 1 PS	FW	158.5						158.5						
FW Tk 1 SB	FW	158.5						158.5						
FW Tk 2 PS	FW	63.9						63.9						
FW Tk 2 SB	FW	63.9						63.9						
FO Tk 1 PS	FO	126.6		126.6										
FO Tk 1 SB	FO	83.7		83.7										
FO Tk 2 PS	FO	84.3		84.3										
FO Tk 2 SB	FO	127.8		127.8										
FO Tk 3 PS	FO	145.7		145.7										
FO Tk 3 SB	FO	84.1		84.1										
FO Tk 4 SB	FO	34.0		34.0										
FO DAY Tk PS	FO	30.0		30.0										
FO DAY Tk SB	FO	30.0		30.0										
FO OVF TK	FO	29.6		29.6										
LM/ORO/BO 1 PS	LM/ORO/BO	160.3								160.3				
LM/ORO/BO 1 SB	LM/ORO/BO	160.3								160.3				
LM/ORO 2 PS	LM/ORO	160.4								160.4				
LM/ORO 2 SB	LM/ORO	160.4								160.4				
LM/ORO 3 PS	LM/ORO	155.2								155.2				
LM/ORO 3 SB	LM/ORO	160.3								160.3				
LM/ORO 4 PS	LM/ORO	155.0								155.0				
LM/ORO 4 SB	LM/ORO	160.3								160.3				
METH PS	METH	101.6									101.6			
METH SB	METH	101.6									101.6			
Dry Bulk Tk 1 PS	Dry Bulk	46.4			46.4									
Dry Bulk Tk 1 SB	Dry Bulk	46.4			46.4									
Dry Bulk Tk 2 PS	Dry Bulk	46.4			46.4									
Dry Bulk Tk 2 SB	Dry Bulk	46.4			46.4									
Dry Bulk Tk 2 C	Dry Bulk	46.4			46.4									
FOAM TK	FOAM	4.2											4.2	
DISPERSANT TK	DISP.	4.2												4.2
LUBE OIL PS	LO	4.1										4.1		
LUBE OIL SB	LO	4.1										4.1		
Total Volume [m ³]			0.0	775.8	232.0	1,746.0	125.4	444.9	0.0	1,272.1	203.2	8.1	4.2	4.2
Spec Sheet Total Volume [m ³]			0.0	686.3	232.0	1,746.0	125.4	444.9	0.0	1,272.1	203.2	8.1	4.2	4.2

*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

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

Version : StatCap v. 3.3.1
 Input file reference : Foot_4084_RevB.scp
 Last modified : 2018-12-20 13.33

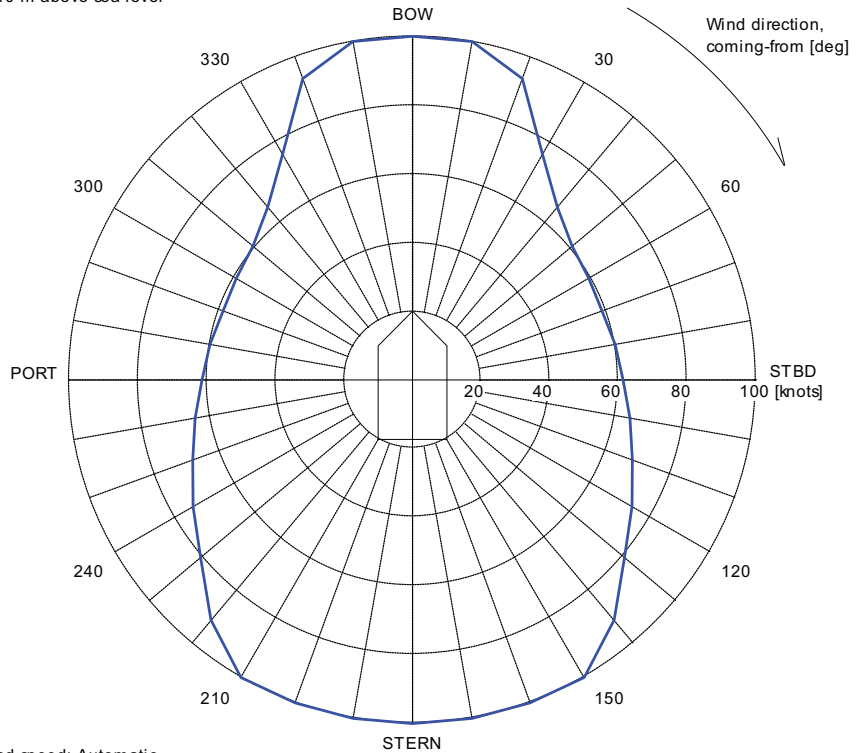
Length overall : 79.4 m
 Length between perpendiculars : 75.0 m
 Breadth : 16.8 m
 Draught : 5.0 m
 Displacement : 4900.0 t (Cb = 0.76)
 Longitudinal radius of inertia : 18.8 m (= 0.25 * Lpp)
 Pos. of origin ahead of Lpp/2 (Xo) : 0.0 m
 Wind load coefficient: Calculated (Blendemann)
 Current load coefficient: Calculated (Strip-theory)
 Wave-drift load coefficient: Database (Scaled by Breadth/Length)

Tidal current direction offset : 0.0 deg
 Wave direction offset : 0.0 deg
 Wave spectrum type : JONSWAP (gamma = 3.10)
 Wind spectrum type : NPD
 Current - wave-drift interactor : 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 director : 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	31.5	0.0	13.5	-13.5	100	900	
2	TUNNEL	28.8	0.0	13.5	-13.5	100	900	
3	AZIMUTH	-37.5	-3.9	45.8	0.0	100	2500	
4	AZIMUTH	-37.5	3.9	45.8	0.0	100	2500	

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



Wind speed: Automatic
 Significant wave height: MIDDLE_EAST
 Mean zero up-crossing period: MIDDLE_EAST

Rotating tidal current: 1.50 knots
 Rotating wind induced current: 0.000*Uwi knots