BOUTROS TIDE

GMGSHI 5150 DP2 ANCHOR HANDLING TOWING SUPPLY VESSEL

Vessel Characteristics

Length, Overall:	192.6 ft	58.7 m
Beam:	47.9 ft	14.6 m
Depth:	18 ft	5.5 m
Maximum Draft:	15.8 ft	4.8 m
Minimum Height:	70.1 ft	21.4 m
Freeboard:	2.6 ft	0.8 m
Displacement:	2,790 lt	2,840 mt
Deadweight:	1,280 lt	1,300 mt
Clear Deck Space:	96 x 40 ft	29 x 12 m
Clear Deck Area:	3,820 ft^2	350 m^2
Deck Strength AFT:	1,430 lb/ft^2	7 t/m^2
Class Notations:	ABS: +A1, TOWING VESSEL, FIFI-1, OSV, AH, (E), +AMS, +DPS-2, UWILD, RW	

Capacities

Deck Cargo:	540 lt	550 t
Fuel Oil:	127,000 gal	480 m^3
Potable Water:	66,700 gal	250 m^3
Drill/Ballast Water:	97,500 gal	370 m^3
Bulk Tanks (4 tanks):	6,000 ft^3	170 m^3
Liquid Mud (2.5 SG*): *Max Structural Specific Gravity	1,590 bbl	250 m^3
Oil Dispersant:	3,570 gal	13.5 m^3
Fire Fighting Foam:	3,570 gal	13.5 m^3

TIDEWATER

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Further specifications

Machinery

Main Engines (2):			CAT 3516 B-HD
Total HP:			5,150
Propellers (2):			CPP, 4 BLADE
Gears (2):			REINTJES LAF 873PK41, 7.562:1
Kort Nozzles:			2
Rudders (2):			STREAMLINE
Primary Generators (3):	450 kw	410 v	50 hz
Driven by:			CAT C18
Secondary Generators (2):	1000 kw	410 v	50 hz
Driven by:			Main Engines
Emergency Generators (1):	65 kw	410 v	50 hz
Bow Thruster (2):			Kawasaki, KT-88B3 TT CPP
Driven by:			650kW Electric Motor
Total Thrust:		21.8 st	19.8 mt
Stern Thruster (1):			Kawasaki, KT-88B3 TT CPP
Driven by:			650kW Electric Motor
Total Thrust:		11 st	10 mt

Performance*

Fuel Consumption Vs Speed		
Maximum:		25 m^3/day (280 gph) @ 13.5 knots
Cruising:		18.9 m^3/day (210 gph) @ 12.4 knots
Economical:		13.2 m^3/day (150 gph) @ 9.6 knots
Standby:		2.2 m^3/day (24.2 gph) @ 0 knots
Range @ 12.4 Knots:		7,580 nm
Bollard Pull	68.8 st	62.4 mt
Transfer Rates		
Fuel Oil:	620 gpm @ 250 ft	140 m^3/h @ 75 m
Potable Water:	440 gpm @ 250 ft	100 m^3/h @ 75 m
Drill/Ballast Water:	440 gpm @ 250 ft	100 m^3/h @ 75 m
Bulk:	25 cfm @ 180 ft	42.4 m^3/h @ 56 m
Liquid Mud:	310 gpm @ 250 ft	70 m^3/h @ 75 m

Tow/Anchor Handling

Winch:	Hydraulic Waterfall Double-Drum (200T Brake)
Model:	MacGregor Plimsoll
Line Pull:	150 mt
Tow/AH Wire:	1000 m / 1000 m of 56 mm
Pennant Reels (1):	1000 m of 56 mm
Shark Jaw:	1 SET @ 200MT SWL
Tow Pins:	2 @ 200MT SWL
Stern Roller:	5.0M X 1.6M DIA; 200 mt SWL

Nav/Comms Equipment

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

Accommodations

No. of Berths:	42
Cabins:	2x1-man, 4x2-man & 8x4-man
Certified to Carry:	42
Galley seating:	27
Hospital:	Yes

Deck Equipment

Anchors (2):	1305kg High Holding Power
Anchor Chain:	220 m of 36 mm chain per side
Windlass:	MacGregor 9T@12m/min
Capstans (2):	5 t Electro-Hydraulic, 15m/min
Tugger (2):	10 t ELECTRO-HYDRAULIC, 15M/MIN

*Approximate values assuming Ideal Conditions

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Further specifications

Registration

Flag: VANUATU	**Home Port:** PORT VILA	
Hull Number: 889	**IMO N°:** 9589059	
Year Built: 2011	**Call Sign:** YJQX8	
Builder:	GUANGXIN SHIPBUILDING	
Tonnage (ITC):	1476 GT	442 NT

Special Equipment

Fire Fighting:	FiFi-1
Dynamic Positioning:	DP-2
Ref. Systems:	2 x MRU; 2 x DGPS 1 x Microwave-based
Water Maker:	5T/DAY
Mud Circulation System:	Yes
Rescue Zone:	Yes
Rescue Boat:	15-Man FRC
Reefer Sockets:	6x 415V 32A
Misc:	MSD - 42 Persons

*Approximate values assuming Ideal Conditions

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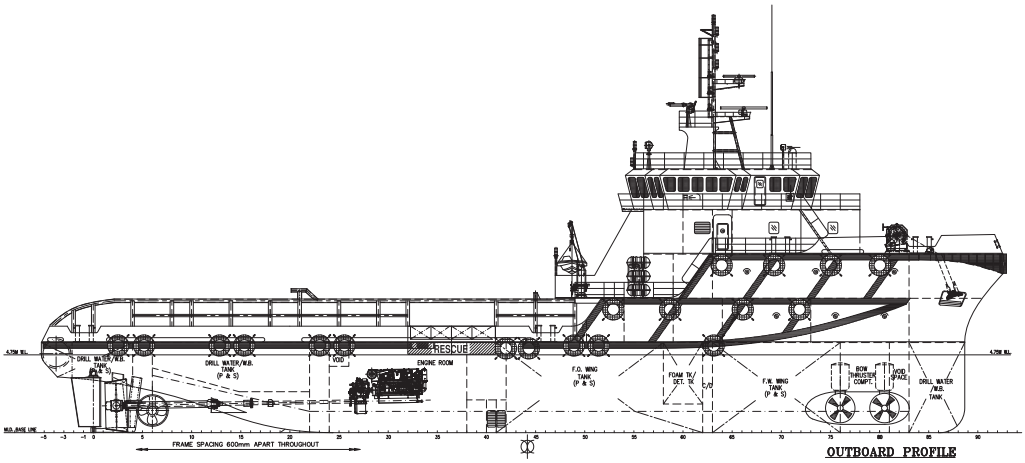
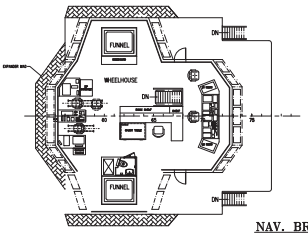
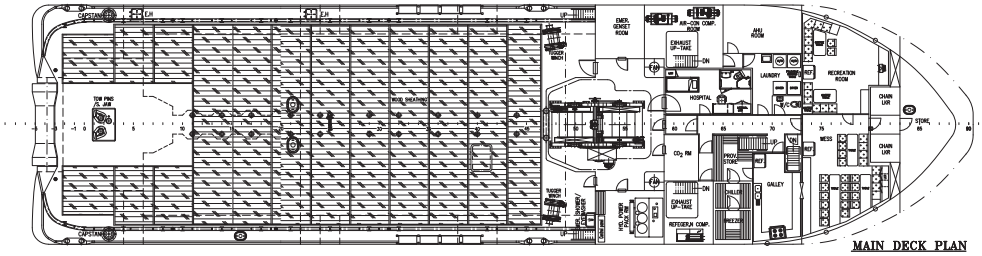
General Arrangement (Current configuration may vary.)



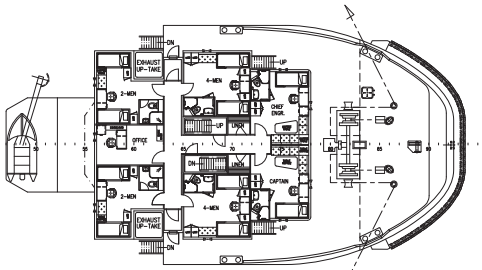
OUTBOARD PROFILE



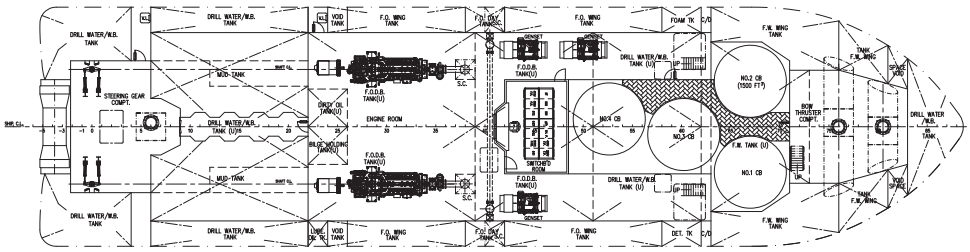
NAV. BRIDGE DECK



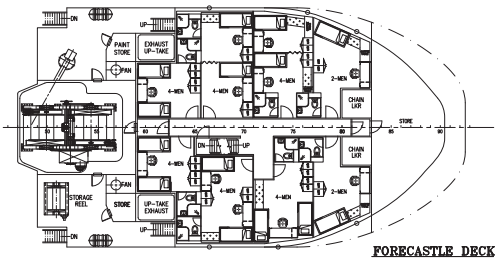
MAIN DECK PLAN



UPPER FORECASTLE DECK



BELOW MAIN DECK PLAN



FORECASTLE DECK

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Capacity 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.
FP DW/WB Tk C	DW/WB	57.9				57.9								
No. 1 DW/WB DB Tk P	DW/WB	39.0				39.0								
No. 1 DW/WB DB Tk S	DW/WB	39.0				39.0								
No. 2 DW/WB Wing Tk P	DW/WB	62.6				62.6								
No. 2 DW/WB Wing Tk S	DW/WB	62.6				62.6								
No. 3 DW/WB DB Tank C	DW/WB	62.0				62.0								
AP DW/WB Tk P	DW/WB	23.1				23.1								
AP DW/WB Tk S	DW/WB	23.1				23.1								
No. 1 FW Wing Tk P	Ship's FW	19.8					19.8							
No. 1 FW Wing Tk S	Ship's FW	19.8					19.8							
No. 2 FW Wing Tk P	Ship's FW	75.7					75.7							
No. 2 FW Wing Tk S	Ship's FW	75.7					75.7							
No. 3 FW DB Tk C	Ship's FW	61.6					61.6							
FO Day Tk P	FO	12.5		12.5										
FO Day Tk S	FO	12.5		12.5										
No. 1 FO Wing Tk P	FO	74.3		74.3										
No. 1 FO Wing Tk S	FO	74.3		74.3										
No. 2 FO DB Tk P	FO	46.6		46.6										
No. 2 FO DB Tk S	FO	46.6		46.6										
No. 3 FO Wing Tk P	FO	62.3		62.3										
No. 3 FO Wing Tk S	FO	62.3		62.3										
No. 4 FO DB Tk P	FO	57.6		57.6										
No. 4 FO DB Tk S	FO	57.6		57.6										
Mud Tk P	LM	125.7								125.7				
Mud Tk S	LM	126.6								126.6				
Foam Tk P	FOAM	13.5											13.5	
Detergent Tk	DISP	13.5												13.5
Lube Oil Tk	LO	8.1										8.1		
No. 1 Cement Tk	Dry Bulk	42.5			42.5									
No. 2 Cement Tk	Dry Bulk	42.5			42.5									
No. 3 Cement Tk	Dry Bulk	42.5			42.5									
No. 4 Cement Tk	Dry Bulk	42.5			42.5									
Total Volume [m^3]			0.0	506.6	170.0	369.3	252.6	0.0	0.0	252.3	0.0	8.1	13.5	13.5
Spec Sheet Total Volume [m^3]			0.0	481.6	170.0	369.3	252.6	0.0	0.0	252.3	0.0	8.1	13.5	13.5

***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.**

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KONGSBERG

DP Capability Plot

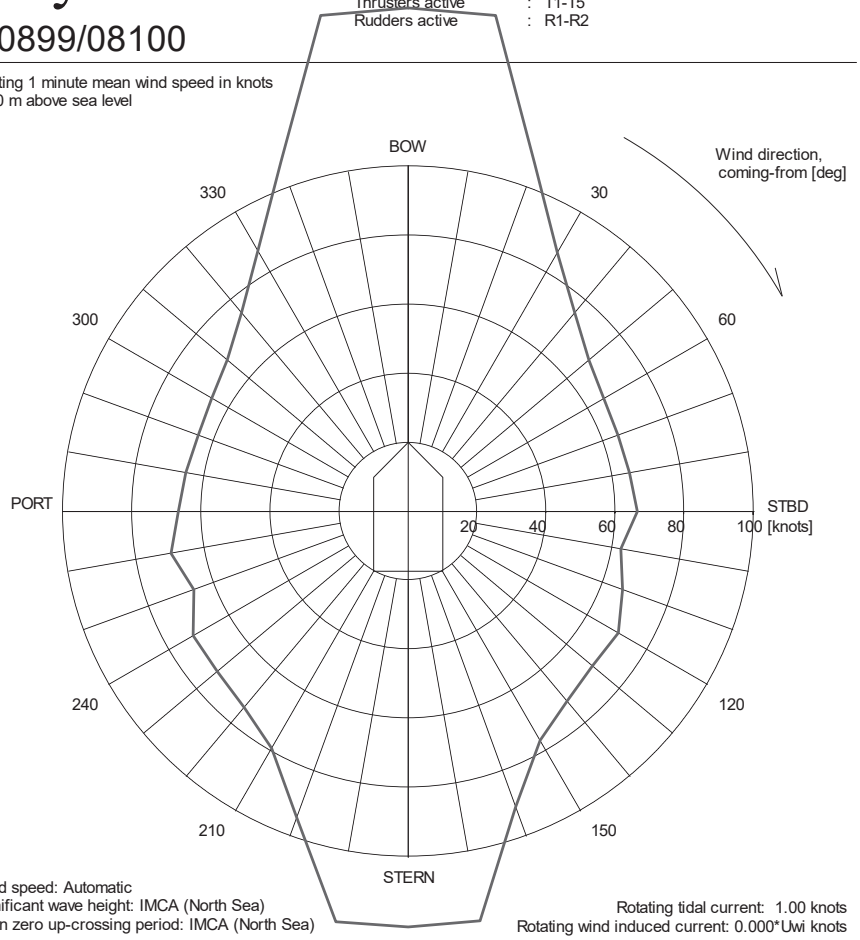
GMG0888/0889/0899/08100

Input file reference	:	foot_3229.scp
Last modified	:	2009-09-06 07.39 (v. 2.6.2)
Length overall	:	58.7 m
Length between perpendiculars	:	53.2 m
Breadth	:	14.6 m
Draught	:	4.8 m
Displacement	:	3000.0 t (Cb = 0.78)
Longitudinal radius of inertia	:	13.3 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

#	Thruster	X [m]	Y [m]	F+ [tf]	F- [tf]	Max [%]	Pe [kW]	Rudder
1	TUNNEL	22.5	0.0	10.1	-10.1	100	675	
2	TUNNEL	19.2	0.0	10.1	-10.1	100	675	
3	TUNNEL	-23.4	0.0	10.1	-10.1	100	675	
4	PROP_AS	-26.5	3.5	33.5	-23.4	100	1100	CUSTOM
5	PROP_AS	-26.5	-3.5	33.5	-23.4	100	1100	CUSTOM

Case number : 1
Case description : All Thrusters, 1.0 kts current
Thrusters active : T1-T5
Rudders active : R1-R2

Limiting 1 minute mean wind speed in knots
at 10 m above sea level



Wind speed: Automatic
Significant wave height: IMCA (North Sea)
Mean zero up-crossing period: IMCA (North Sea)

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