SAVOY TIDE

CW 7016 ANCHOR HANDLING TOWING SUPPLY VESSEL

Vessel Characteristics

Length, Overall:	229 ft	69.8 m
Beam:	55.1 ft	16.8 m
Depth:	22.3 ft	6.8 m
Maximum Draft:	19.4 ft	5.9 m
Minimum Height:	84.6 ft	25.8 m
Freeboard:	3 ft	0.9 m
Displacement:	4,960 lt	5,040 mt
Deadweight:	2,260 lt	2,290 mt
Clear Deck Space:	106 x 46 ft	32 x 14 m
Clear Deck Area:	4,860 ft^2	450 m^2
Deck Strength AFT:	1,020 lb/ft^2	5 t/m^2
Class Notations:	ABS: +A1, (E), OSV, Anchor Handling Vessel, Towing Vessel, FFV-1, +AMS, +DPS-2,+ACCU, OSR-C1, HAB(WB), ENVIRO, RW, UWILD, GP	

Capacities

Deck Cargo:	980 lt	1,000 t
Fuel Oil:	158,000 gal	600 m^3
Potable Water:	82,800 gal	310 m^3
Fresh Water:	254,000 gal	960 m^3
Drill/Ballast Water:	36,800 gal	140 m^3
Bulk Tanks (4 tanks):	8,480 ft^3	240 m^3
Liquid Mud (2.5 SG*): *Max Structural Specific Gravity	3,190 bbl	510 m^3
Oil Dispersant:	4,620 gal	17.5 m^3
Fire Fighting Foam:	4,620 gal	17.5 m^3

TIDEWATER

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Further specifications

Machinery

Main Engines (2):			MAK 8M25C
Total HP:			7,150
Propellers (2):			Berg BAT-730 Z-Drives, CPP
Kort Nozzles:			2
Primary Generators (4):	550 kw	440 v	60 hz
Driven by:			Caterpillar C18
Secondary Generators (2):	2,100 kw	440 v	60 hz
Driven by:			Main Engines
Emergency Generators (1):	240 kw	440 v	60 hz
Driven by:			Caterpillar C9
Bow Thruster (2):			Berg BTT 419, Tunnel
Driven by:			950kW Electric Motor
Total Thrust:		31.9 st	28.9 mt

Performance*

Fuel Consumption Vs Speed		
Maximum:	19 m^3/day (210 gph) @ 13 knots	
Cruising:	11 m^3/day (120 gph) @ 10 knots	
Economical:	8 m^3/day (88.1 gph) @ 8 knots	
Standby:	1.5 m^3/day (16.5 gph) @ 0 knots	
Range @ 10 Knots:	13,000 nm	
Bollard Pull	99 st	89.8 mt
Transfer Rates		
Fuel Oil:	660 gpm @ 260 ft	150 m^3/h @ 80 m
Potable Water:	660 gpm @ 260 ft	150 m^3/h @ 80 m
Drill/Ballast Water:	660 gpm @ 260 ft	150 m^3/h @ 80 m
Bulk:	35.8 cfm @ 200 ft	60.8 m^3/h @ 61 m
Liquid Mud:	470 gpm @ 600 ft	110 m^3/h @ 180 m
Brine:	470 gpm @ 600 ft	110 m^3/h @ 180 m

Tow/Anchor Handling

Winch:	MacGregor Reverse Double Drum Waterfall (280T Brake)
Model:	MG-AHTW-1528D10062-6476
Line Pull:	150 mt
Tow/AH Wire:	1000 m / 1000 m of 62 mm
Pennant Reels (1):	1000 m of 62 mm
Shark Jaw:	300MT SWL, 2XKARMFORKS
Tow Pins:	160 MT SWL, KARMOY (1 SET)
Chain Lockers (2):	1,430 m of 76mm chain
Chain Handler:	1X76MM, 1X64MM
Stern Roller:	14.7FT X 6.6FT; 280 mt SWL

Nav/Comms Equipment

Radar(s):	2
Depth Sounder:	1
Gyro Compass:	3
Wind Seeed Indicators:	3
Doppler Log:	1
Radio:	2 x VHF; 1 x SSB
Sat Com:	INMARSAT C & IRIDIUM

Accommodations

No. of Berths:	32
Cabins:	10x1-man, 5x2-man & 3x4-man
Certified to Carry:	32
Galley seating:	27
Hospital:	Yes

Deck Equipment

Anchors (2):	1710kg Stockless AC-14 HHP
Anchor Chain:	330 m of 36 mm chain per side
Windlass:	MacGregor Electro-hydraulic
Crane (1):	4 t @ 14 m
Capstans (2):	5 t MacGregor HVC-0540 (15m/min)
Tugger (2):	10 t MACGREGOR HUW-1040UL (15M/MIN)

*Approximate values assuming Ideal Conditions

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Further specifications

Registration

Flag: VANUATU	**Home Port:** PORT VILA	
Hull Number: 12151	**IMO N°:** 9715074	
Year Built: 2015	**Call Sign:** YJWA4	
Builder:	GSHI SHIPYARDS	
Tonnage (ITC):	2586 GT	775 NT

Special Equipment

Fire Fighting:	FiFi-1
Dynamic Positioning:	DP-2
Ref. Systems:	2 x MRU; 2 x DGPS 1 x Microwave-based; 1 x Laser-based
Water Maker:	1 X 10T/DAY
Mud Circulation System/ Mud Mixers:	Yes/Yes
Tank Cleaning:	Yes
Rescue Zone:	Yes
Rescue Boat:	MERLIN 615 9-Man FRC
Gas Detection:	FIXED GAS DETECTION SYSTEM
Reefer Sockets:	4x 50A 440/3/60; 4x 50A 220/1/60; 4x 30A 220/3/60
SPS Compliant:	Yes
Misc:	ORO Capable - 349.8m3; MSD - 32 Persons; *SPS Limited Deadweight = 1566.11T

*Approximate values assuming Ideal Conditions

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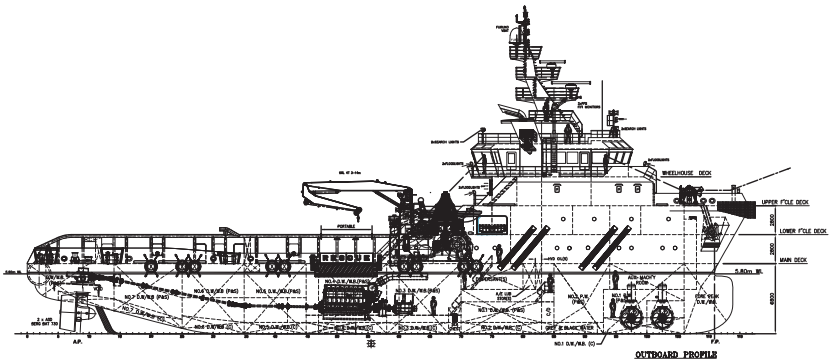
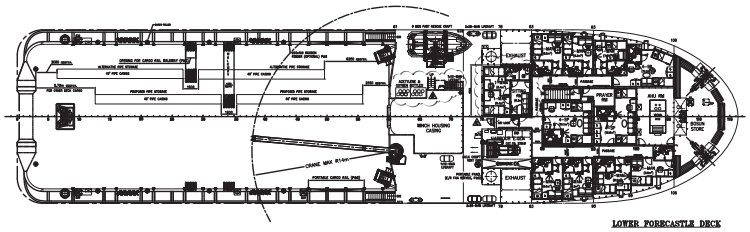
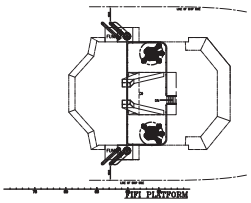
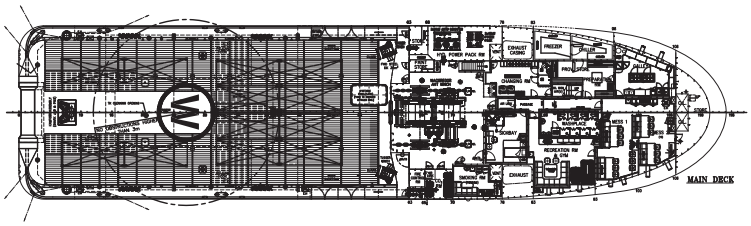
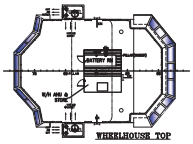
General Arrangement (Current configuration may vary.)

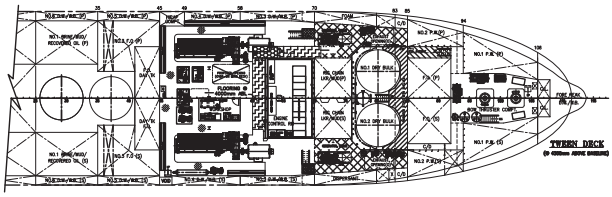


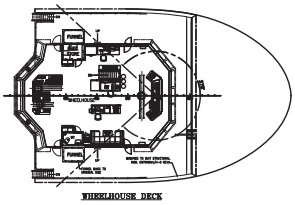


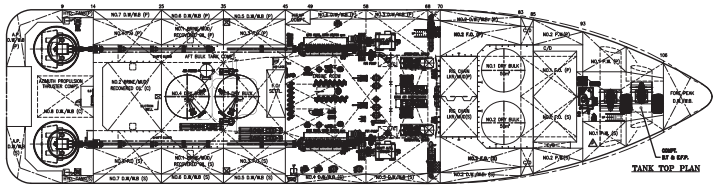


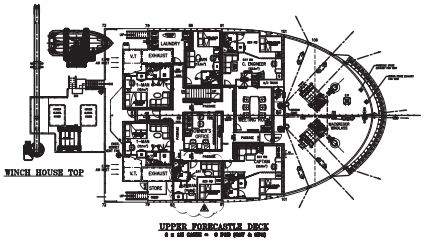


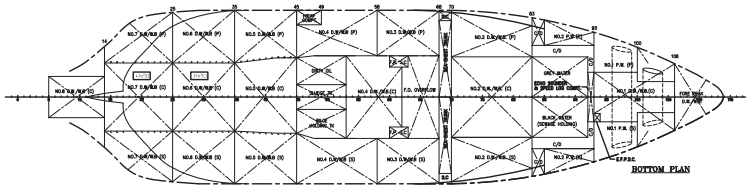












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Capacity Table

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.
Forepeak Tk	DW/WB/FW	90.6				90.6								
No.1 DW/WB C	DW/WB/FW	33.9				33.9		33.9						
No.2 DW/WB S	DW/WB/FW	54.1				54.1		54.1						
No.2 DW/WB P	DW/WB/FW	54.1				54.1		54.1						
No.2 DW/WB C	DW/WB/FW	65.6				65.6		65.6						
No.3 DW/WB P	DW/WB/FW	62.2				62.2		62.2						
No.3 DW/WB S	DW/WB/FW	62.2				62.2		62.2						
No.4 DW/WB P	DW/WB/FW	59.2				59.2		59.2						
No.4 DW/WB S	DW/WB/FW	68.3				68.3		68.3						
No.4 DW/WB C	DW/WB/FW	44.5				44.5		44.5						
No.5 DW/WB P	DW/WB/FW	57.8				57.8		57.8						
No.5 DW/WB S	DW/WB/FW	57.8				57.8		57.8						
No.5 DW/WB C	DW/WB/FW	46.9				46.9		46.9						
No.6 DW/WB P	DW/WB/FW	54.1				54.1		54.1						
No.6 DW/WB S	DW/WB/FW	54.1				54.1		54.1						
No.6 DW/WB C	DW/WB/FW	37.5				37.5		37.5						
No.7 DW/WB P	DW/WB/FW	40.1				40.1		40.1						
No.7 DW/WB S	DW/WB/FW	40.1				40.1		40.1						
No.7 DW/WB C	DW/WB/FW	47.0				47.0		47.0						
No.8 DW/WB C	DW/WB/FW	20.8				20.8		20.8						
Aft. Peak P	DW/WB/FW	24.4				24.4								
Aft. Peak S	DW/WB/FW	24.4				24.4								
No.1 PW S	Ship's FW	101.7					101.7							
No.1 PW P	Ship's FW	101.7					101.7							
No.2 PW S	Ship's FW	51.9					51.9							
No.2 PW P	Ship's FW	58.3					58.3							
No.1 FO TK S	FO	103.2		103.2										
No.1 FO TK P	FO	95.6		95.6										
No.2 FO TK S	FO	36.4		36.4										
No.2 FO TK P	FO	36.4		36.4										
No.3 FO TK S	FO	102.5		102.5										
No.3 FO TK P	FO	102.5		102.5										
No.4 FO TK S	FO	60.3		60.3										
No.4 FO TK P	FO	60.3		60.3										
FO Day TK S	FO	35.8		35.8										
FO Day TK P	FO	36.5		36.5										
FO Settling C	FO	23.5		23.5										
FO Overflow	FO	30.2		30.2										
CL Mud S	LM/CL	75.1								75.1				
CL Mud P	LM/CL	82.4								82.4				
No.1 Mud S	LM/BR/ORO	93.9								93.9				
No.1 Mud P	LM/BR/ORO	93.9								93.9				
No.2 Mud C	LM/BR/ORO	162.0								162.0				
Foam Tank P	FOAM	17.5											17.5	
Dispersant TK S	DISP	17.5												17.5
MELO STORAGE P	LO	5.3										5.3		
AELO STORAGE S	LO	3.5										3.5		
Dry Bulk Tk 55	Dry Bulk	60.0			60.0									
Dry Bulk Tk 56	Dry Bulk	60.0			60.0									
Dry Bulk Tk 57	Dry Bulk	60.0			60.0									
Dry Bulk Tk 58	Dry Bulk	60.0			60.0									
Total Volume [m^3]			0.0	723.2	240.0	1,099.7	313.6	960.3	0.0	507.3	0.0	8.8	17.5	17.5
Spec Sheet Total Volume [m^3]			0.0	597.2	240.0	139.4	313.6	960.3	0.0	507.3	0.0	8.8	17.5	17.5

*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

GS12148

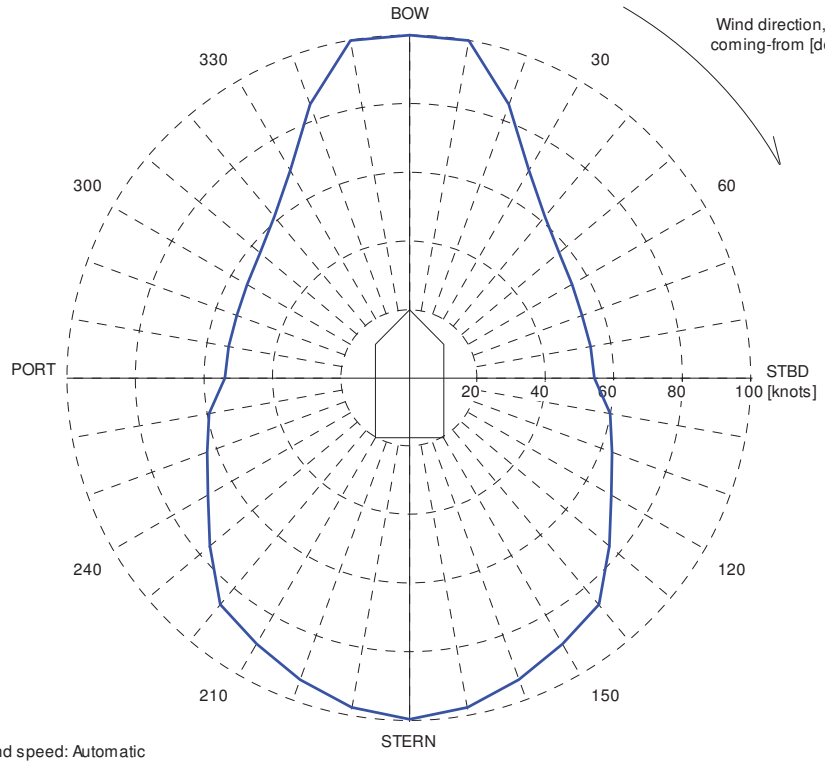
Case number : 1
Case description : Optimum use of all thrusters
Thrusters active : T1-T4
Rudders active :

Version	:	StatCap v. 2.10.1
Input file reference	:	Foot_4936_From Customer_Rev_A.scp
Last modified	:	2015-04-01 14.27
Length overall	:	69.8 m
Length between perpendiculars	:	61.8 m
Breadth	:	16.8 m
Draught	:	5.2 m
Displacement	:	4150.0 t (Cb = 0.75)
Longitudinal radius of inertia	:	15.4 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	:	OFF

#	Thruster	X [m]	Y [m]	F+ [tf]	F- [tf]	Max [%]	Pe [kW]	Rudder
1	TUNNEL	28.2	0.0	12.1	-12.1	100	950	
2	TUNNEL	25.2	0.0	12.1	-12.1	100	950	
3	AZIMUTH	-28.1	-4.6	29.2	-26.3	100	2666	
4	AZIMUTH	-28.1	4.6	29.2	-26.3	100	2666	

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

ERN = 99.
ERN are subject to DNV approval



Wind speed: Automatic
Significant wave height: DNV (ERN)
Mean zero up-crossing period: DNV (ERN)

Rotating tidal current: 1.46 knots
Rotating wind induced current: 0.000*Uwi knots