TORTUGA TIDE

TITUS TIDE as shown, TORTUGA TIDE similar

STX 05-L CD PSV

Vessel Characteristics

Length, Overall:	269.7 ft	82.2 m
Beam:	55.8 ft	17 m
Depth:	24.9 ft	7.6 m
Maximum Draft:	20.7 ft	6.3 m
Light Draft:	9.5 ft	2.9 m
Minimum Height:	95.8 ft	29.2 m
Freeboard:	4.3 ft	1.3 m
Displacement:	6,390 lt	6,500 mt
Deadweight:	3,950 lt	4,010 mt
Clear Deck Space:	190 x 44 ft	58 x 14 m
Clear Deck Area:	8,720 ft^2	810 m^2
Deck Strength FWD:	1,020 lb/ft^2	5 t/m^2
Deck Strength AFT:	2,050 lb/ft^2	10 t/m^2
Class Notations:	DNV: +1A1, Fire fighter(I), Clean(Design), COM-F(V-3), DK(+), DYNPOS(AUTR), E0, HL(2.8), LFL(*), NAUT(OSV(A)), OILREC, SF	

Capacities

Deck Cargo:	1,890 lt	1,920 t
Fuel Oil:	243,000 gal	920 m^3
Potable Water:	72,200 gal	270 m^3
Fresh Water:	211,000 gal	800 m^3
Drill/Ballast Water:	478,000 gal	1,810 m^3
Bulk Tanks (6 tanks):	11,000 ft^3	310 m^3
Liquid Mud (2.5 SG*): *Max Structural Specific Gravity	6,150 bbl	980 m^3
Methanol:	660 bbl	100 m^3
Base Oil:	1,600 bbl	250 m^3
Fire Fighting Foam:	450 gal	1.7 m^3

TIDEWATER

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TORTUGA TIDE

Further specifications

Machinery

Diesel Electric Vessel			
Propulsive/Total HP:			4,290 / 6,920
Z-Drives:			Yes
Propellers (2):			STP 1212 FPP, 1600KW
Primary Generators (4):	1,200 kw	690 v	60 hz
Driven by:			CUMMINS KTA50-D(M1)
Emergency Generators (1):	100 kw	690 v	60 hz
Driven by:			CUMMINS 6CT-8.3-D(M)
Bow Thruster (2):			FU-74-LTC-2000 TUNNEL
Driven by:			880KW ELECTRIC MOTORS
Total Thrust:		29.5 st	26.8 mt

Deck Equipment

Anchors (2):	3300 KG M-SPEK
Anchor Chain:	250 m of 46 mm chain per side
Windlass:	2x NMD 46 MMK3
Crane (1):	5 t @ 10 m
Aux. Crane (1):	2 t @ 10 m
Capstans (2):	8 t NMD CAPSTANS
Tugger (2):	10 t NMD TUGGERS

Accommodations

No. of Berths:	28
Cabins:	6x1-man & 11x2-man
Certified to Carry:	28
Galley seating:	20
Hospital:	Yes

Registration

Flag: NORWAY	**Home Port:** SKUDENESHAVN	
Hull Number: 91	**IMO N^{O}:** 9624744	
Year Built: 2014	**Call Sign:** LAFH8	
Builder:	Cochin Shipyard Limited	
Tonnage (ITC):	3455 GT	1406 NT

Performance*

Fuel Consumption Vs Speed		
Maximum:	28.2 m³/day (310 gph) @ 15 knots	
Cruising:	13.2 m³/day (150 gph) @ 12 knots	
Economical:	8.3 m³/day (91.4 gph) @ 10 knots	
Standby:	2 m³/day (22 gph) @ 0 knots	
Range @ 12 Knots:	20,000 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:	33.6 cfm @ 190 ft	57 m³/h @ 57 m
Liquid Mud:	330 gpm @ 800 ft	75 m³/h @ 240 m
Base Oil:	220 gpm @ 300 ft	50 m³/h @ 92 m
Brine:	330 gpm @ 700 ft	75 m³/h @ 210 m
Methanol:	220 gpm @ 300 ft	50 m³/h @ 92 m

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:	2X 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
Mud Circulation System/ Mud Mixers:	Yes/Yes
Tank Cleaning:	Yes
Rescue Boat:	15-Man 6.5M JY 65 KR FRC
Reefer Sockets:	4x 440V 16A, 4x 230V 16A
Misc:	ORO Capacity - 977.5 m3; MSD - 30 Persons; Eye Wash Station

*Approximate values assuming Ideal Conditions

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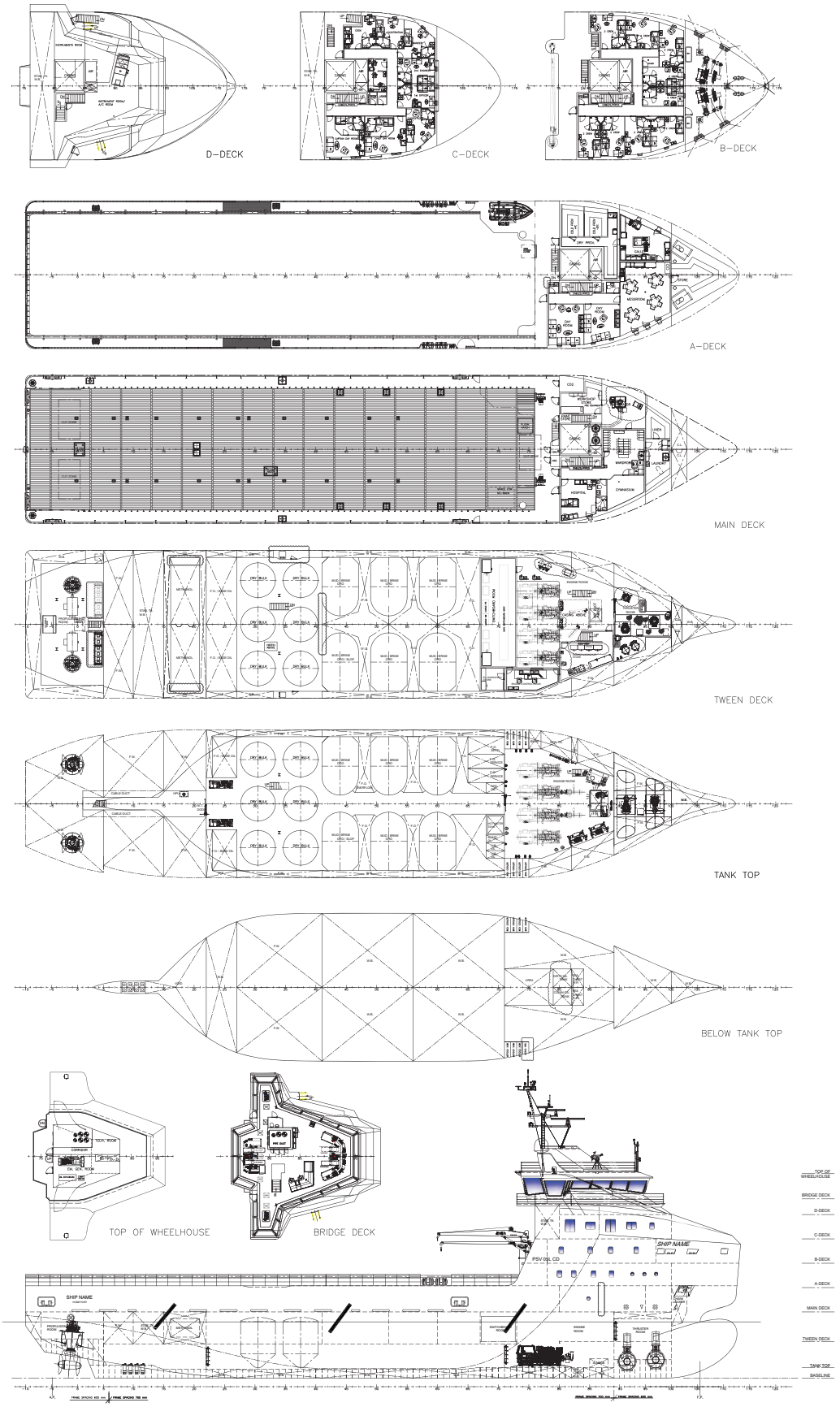
General Arrangement (Current configuration may vary.)



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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.
1 FOREPEAK	DW/WB	126.6				126.6								
2 WB DB	DW/WB	45.0				45.0								
3 WB DB	DW/WB	55.8				55.8								
4 WB DB	DW/WB	55.8				55.8								
5 WB DB	DW/WB	97.5				97.5								
6 WB DB	DW/WB	97.5				97.5								
7 WB DB	DW/WB	98.6				98.6								
8 WB DB	DW/WB	98.6				98.6								
11 WB DB	DW/WB	60.6				60.6								
26 WB WT	DW/WB	52.5				52.5								
28 WB WT	DW/WB	51.6				51.6								
30 WB WT	DW/WB	12.2				12.2								
31 WB WT	DW/WB	52.5				52.5								
32 BO CD	DW/WB	15.6				15.6								
33 WB WT	DW/WB	51.6				51.6								
35 WB WT	DW/WB	12.2				12.2								
37 CD	DW/WB	15.5				15.5								
38 AFTPEAK SB	DW/WB	110.2				110.2								
39 MET CD	DW/WB	197.4				197.4								
40 STAB TK	DW/WB	215.0				215.0								
45 AFTPEAK PS	DW/WB	101.5				101.5								
81 STAB TK	DW/WB	186.6				186.6								
9 FW DB WB	FW	101.1						101.1						
10 FW DB WB	FW	101.1						101.1						
18 FW WT	Ship's FW	74.4					74.4							
19 FW WT	Ship's FW	74.4					74.4							
20 FW WT	Ship's FW	64.7					64.7							
21 FW WT	Ship's FW	59.8					59.8							
22 FW WT	FW	55.6						55.6						
34 FW TK	FW	81.9						81.9						
36 FW WT	FW	175.8						175.8						
41 FW TK	FW	81.9						81.9						
43 FW WT	FW	175.8						175.8						
79 FW WT	FW	25.8						25.8						
58 FO TK	FO	101.1		101.1										
59 FO TK	FO	73.0		73.0										
62 FO TK	FO	90.5		90.5										
63 FO TK	FO	28.1		28.1										
66 FO TK	FO	159.6		159.6										
67 FO TK	FO	90.5		90.5										
69 FO TK	FO	122.6		122.6										
73 FO SREVICE	FO	18.6		18.6										
75 FO SERVICE	FO	18.6		18.6										
77 FO SETTLING	FO	21.5		21.5										
46 BO TK SB	FO/BO	127.4	127.4	127.4										
47 BO TK PS	FO/BO	127.4	127.4	127.4										
48 METH SB	METH	52.3									52.3			
49 METH PS	METH	52.3									52.3			
56 MUD TK	LM/ORO	162.9								162.9				
57 MUD TK	LM/ORO	162.9								162.9				
60 MUD TK	LM/ORO	162.9								162.9				
61 MUD TK	LM/ORO	162.9								162.9				
64 MUD TK	LM/ORO	163.0								163.0				
65 MUD TK	LM/ORO	162.9								162.9				
50 CEM TK	DRY BULK	51.9			51.9									
51 CEM TK	DRY BULK	51.9			51.9									
52 CEM TK	DRY BULK	51.9			51.9									
53 CEM TK	DRY BULK	51.9			51.9									
54 CEM TK	DRY BULK	51.9			51.9									
55 CEM TK	DRY BULK	51.9			51.9									
71 LUB OIL	LO	6.1										6.1		
FOAM TK	FOAM	1.7											1.7	
Total Volume [m^3]			254.8	978.9	311.4	1,810.4	273.3	799.0	0.0	977.5	104.6	6.1	1.7	0.0
Spec Sheet Total Volume [m^3]			254.8	920.2	311.4	1,810.4	273.3	799.0	0.0	977.5	104.6	6.1	1.7	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.

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KONGSBERG

DP Capability Plot

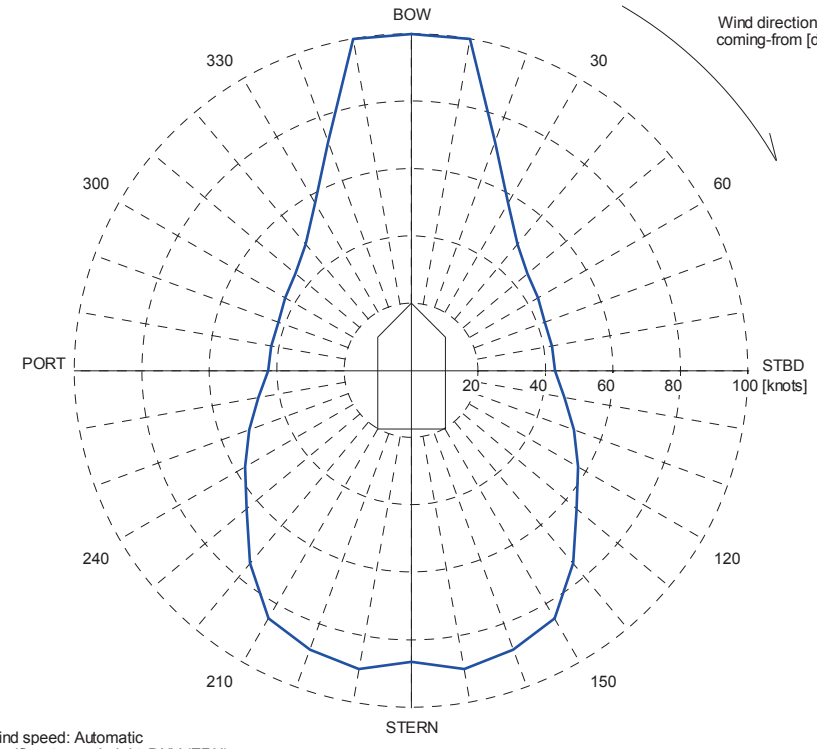
Case number : 1
Case description : Optimum use of all thrusters
Thrusters active : T1-T4
Rudders active :

Input file reference	:	Foot_3833_A.scp
Last modified	:	2011-04-12 12.17 (v. 2.8.0)
Length overall	:	82.2 m
Length between perpendiculars	:	74.1 m
Breadth	:	17.0 m
Draught	:	6.3 m
Displacement	:	6000.0 t (Cb = 0.74)
Longitudinal radius of inertia	:	18.5 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	:	ON
Thrust loss calculation	:	ON

#	Thruster	X [m]	Y [m]	F+ [tf]	F- [tf]	Max [%]	Pe [kW]	Rudder
1	TUNNEL	32.0	0.0	12.7	-12.7	100	850	
2	TUNNEL	28.7	0.0	12.7	-12.7	100	850	
3	AZIMUTH	-35.3	-4.5	28.3	-17.4	100	1600	
4	AZIMUTH	-35.3	4.5	28.3	-17.4	100	1600	

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

Figure 10: DP capability envelope for case 1.