

# TITUS TIDE



## 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:	3,970 lt	4,040 mt
Clear Deck Space:	190 x 44 ft	58 x 14 m
Clear Deck Area:	8,720 ft <sup>2</sup>	810 m <sup>2</sup>
Deck Strength FWD:	1,020 lb/ft <sup>2</sup>	5 t/m <sup>2</sup>
Deck Strength AFT:	2,050 lb/ft <sup>2</sup>	10 t/m <sup>2</sup>
Class Notations:	DNV: +1A1, Clean(Design), COMF(V-3), DK(+), DYNPOS(AUTR), E0, HL(2.8), NAUT(OSV(A)), OILREC, SF	

### Capacities

Deck Cargo:	1,900 lt	1,930 t
Fuel Oil:	243,000 gal	920 m <sup>3</sup>
Potable Water:	72,200 gal	270 m <sup>3</sup>
Fresh Water:	211,000 gal	800 m <sup>3</sup>
Drill/Ballast Water:	478,000 gal	1,810 m <sup>3</sup>
Bulk Tanks (6 tanks):	11,100 ft <sup>3</sup>	310 m <sup>3</sup>
Liquid Mud (2.5 SG*):	6,150 bbl	980 m <sup>3</sup>
<small>*Max Structural Specific Gravity</small>		
Methanol:	660 bbl	100 m <sup>3</sup>
Base Oil:	1,600 bbl	250 m <sup>3</sup>
Fire Fighting Foam:	420 gal	1.6 m <sup>3</sup>

## TIDEWATER

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Pg.2 Further Specifications  
Pg.3 General Arrangement

Pg.4 Capacity Table  
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### Machinery

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

### Deck Equipment

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

### Accommodations

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

### Registration

<b>Flag:</b> NORWAY	<b>Home Port:</b> SKUDENESHAVN
<b>Hull Number:</b> 90	<b>IMO N<sup>o</sup>:</b> 9575632
<b>Year Built:</b> 2014	<b>Call Sign:</b> LAFGB
<b>Builder:</b>	Cochin Shipyard Limited
<b>Tonnage (ITC):</b>	3455 GT / 1406 NT

### Performance\*

<b>Fuel Consumption Vs Speed</b>		
<i>Maximum:</i>	28.2 m <sup>3</sup> /day (310 gph) @ 14 knots	
<i>Cruising:</i>	13.2 m <sup>3</sup> /day (150 gph) @ 11 knots	
<i>Economical:</i>	8.6 m <sup>3</sup> /day (94.7 gph) @ 10 knots	
<i>Standby:</i>	2 m <sup>3</sup> /day (22 gph) @ 0 knots	
<b>Range @ 11 Knots:</b>	20,000 nm	
<b>Transfer Rates</b>		
<i>Fuel Oil:</i>	660 gpm @ 300 ft	150 m <sup>3</sup> /h @ 92 m
<i>Fresh Water:</i>	660 gpm @ 300 ft	150 m <sup>3</sup> /h @ 92 m
<i>Drill/Ballast Water:</i>	660 gpm @ 300 ft	150 m <sup>3</sup> /h @ 92 m
<i>Bulk:</i>	33.6 cfm @ 190 ft	57 m <sup>3</sup> /h @ 57 m
<i>Liquid Mud:</i>	330 gpm @ 800 ft	75 m <sup>3</sup> /h @ 240 m
<i>Base Oil:</i>	220 gpm @ 300 ft	50 m <sup>3</sup> /h @ 92 m
<i>Brine:</i>	330 gpm @ 700 ft	75 m <sup>3</sup> /h @ 210 m
<i>Methanol:</i>	220 gpm @ 300 ft	50 m <sup>3</sup> /h @ 92 m

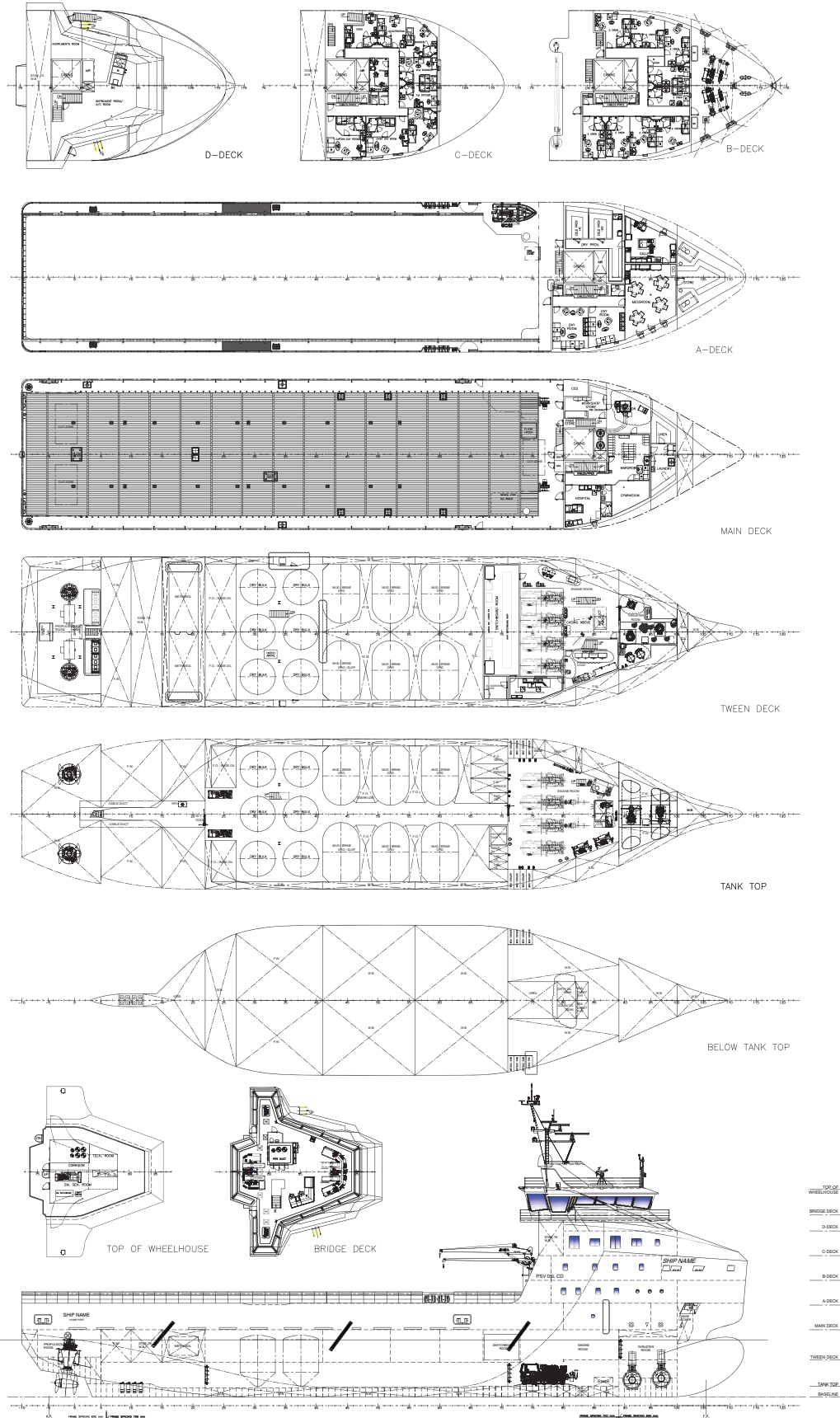
### Nav/Comms Equipment

<b>Radar(s):</b>	2
<b>Depth Sounder:</b>	1
<b>Gyro Compass:</b>	3
<b>Wind Speed Indicators:</b>	3
<b>Doppler Log:</b>	1
<b>Radio:</b>	3 x VHF; 1 x SSB
<b>Sat Com:</b>	2X INMARSAT-C

### Special Equipment

<b>Firefighting:</b>	FiFi-1
<b>Dynamic Positioning:</b>	DP-2
<b>Ref. Systems:</b>	3 x MRU; 2 x DGPS 1 x Microwave-based; 1 x Laser-based
<b>Mud Circulation System/ Mud Mixers:</b>	Yes/Yes
<b>Tank Cleaning:</b>	Yes
<b>Rescue Boat:</b>	6-Man NOREQ RRB 500 MOB
<b>Reefer Sockets:</b>	14x 440V 32A, 5x 220V 16A
<b>Misc:</b>	ORO Capacity - 977.5 m <sup>3</sup> ; MSD - 30 Persons; Eye Wash Station

\*Approximate values assuming Ideal Conditions







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 (Blendemarm)  
 Current load coefficients : Calculated (Strip-theory)  
 Wave-drift load coefficients : Database (Scaled by Breadth/Length)

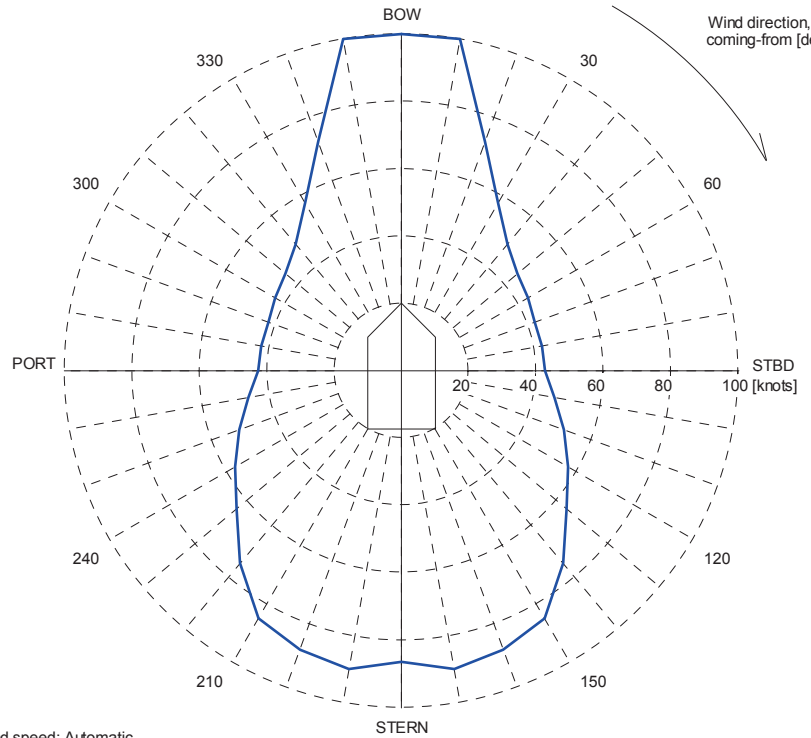
Tidal current direction offset : 0.0 deg  
 Wave direction offset : 0.0 deg  
 Wave spectrum type : JONSWAP (gamma = 3.30)  
 Wind spectrum type : NPD  
 Current - wave-drift interaction : OFF  
 Load dynamics allowance : 1.0 \* STD of thrust demand  
 Additional surge force : 0.0 tf  
 Additional sway 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.