# SAAVEDRA TIDE

CAMPOS TIDE as shown, SAAVEDRA TIDE similar

## STX PSV 08 PLATFORM SUPPLY VESSEL

### Vessel Characteristics

| | | |
|---|---|---|
| **Length, Overall:** | 274.9 ft | 83.8 m |
| **Beam:** | 59.1 ft | 18 m |
| **Depth:** | 27.6 ft | 8.4 m |
| **Maximum Draft:** | 22.3 ft | 6.8 m |
| **Minimum Height:** | 89.8 ft | 27.4 m |
| **Freeboard:** | 5.3 ft | 1.6 m |
| **Displacement:** | 7,330 lt | 7,450 mt |
| **Deadweight:** | 4,590 lt | 4,670 mt |
| **Clear Deck Space:** | 196 x 49 ft | 60 x 15 m |
| **Clear Deck Area:** | 9,470 $ft^2$ | 880 $m^2$ |
| **Deck Strength AFT:** | 2,050 $lb/ft^2$ | 10 $t/m^2$ |
| **Class Notations:** | ABS: +A1, OSV, FFV-1, (E), +AMS, +ACCU, +DPS-2, ENVIRO, GP, HAB(WB), MLC-ACCOM, PMP, UWILD | |

### Capacities

| | | |
|---|---|---|
| **Deck Cargo:** | 2,210 lt | 2,250 t |
| **Fuel Oil:** | 272,000 gal | 1,030 $m^3$ |
| **Potable Water:** | 28,500 gal | 110 $m^3$ |
| **Fresh Water:** | 519,000 gal | 1,970 $m^3$ |
| **Drill/Ballast Water:** | 64,700 gal | 250 $m^3$ |
| **Bulk Tanks (4 tanks):** | 8,620 $ft^3$ | 240 $m^3$ |
| **Liquid Mud (2.8 SG*):** *Max Structural Specific Gravity | 9,400 bbl | 1,490 $m^3$ |
| **Methanol:** | 2,160 bbl | 340 $m^3$ |
| **Base Oil:** | 2,500 bbl | 400 $m^3$ |

TIDEWATER

**Find out more** **tdw.com**

Pg.2 Further Specifications
Pg.3 General Arrangement
Pg.4 Capacity Table
Pg.5 DP Capability Plot

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## Further specifications

### Machinery

| | | | |
|---|---|---|---|
| **Diesel Electric Vessel** | | | |
| *Propulsive/Total HP:* | | | 4,290 / 9,270 |
| **Z-Drives:** | | | Yes |
| **Propellers (2):** | | | 1600 KW Twinpropeller FPP |
| **Primary Generators (4):** | 1,730 kw | 690 v | 60 hz |
| *Driven by:* | | | CAT 3512C |
| **Emergency Generators (1):** | 420 kw | 440 v | 60 hz |
| *Driven by:* | | | CAT C-18 |
| **Bow Thruster (2):** | | | Tunnel/Retractable Azimuth |
| *Driven by:* | | | 880 KW MOTOR |
| *Total Thrust:* | | 29.4 st | 26.7 mt |

### Deck Equipment

| | |
|---|---|
| **Anchors (2):** | Spek Type |
| **Anchor Chain:** | 260 m of 46 mm chain per side |
| **Windlass:** | RRM MW100F/AW46K3 |
| **Crane (1):** | 2 t @ 18 m |
| **Capstans (2):** | 8 t RRM CH80-E |
| **Tugger (2):** | 10 t RRM TUW 100F |

### Accommodations

| | |
|---|---|
| **No. of Berths:** | 40 |
| **Cabins:** | 14x1-man, 5x2-man & 4x4-man |
| **Certified to Carry:** | 40 |
| **Galley seating:** | 22 |
| **Hospital:** | Yes |

### Registration

| | | |
|---|---|---|
| **Flag:** VANUATU | | **Home Port:** PORT VILA |
| **Hull Number:** 1206 | | **IMO N°:** 9697090 |
| **Year Built:** 2016 | | **Call Sign:** YJWA3 |
| **Builder:** | | JIANGSU ZHENJIANG SYARD |
| **Tonnage (ITC):** | 3927 GT | 1425 NT |

### Performance*

| | | |
|---|---|---|
| **Fuel Consumption Vs Speed** | | |
| *Maximum:* | | 19.6 $m^3$/day (220 gph) @ 14 knots |
| *Cruising:* | | 13.4 $m^3$/day (150 gph) @ 12 knots |
| *Economical:* | | 8.6 $m^3$/day (95 gph) @ 10 knots |
| *Standby:* | | 2.7 $m^3$/day (29.5 gph) @ 0 knots |
| **Range @ 8 Knots:** | | 13,400 nm |
| **Transfer Rates** | | |
| *Fuel Oil:* | 880 gpm @ 300 ft | 200 $m^3$/h @ 90 m |
| *Fresh Water:* | 880 gpm @ 300 ft | 200 $m^3$/h @ 90 m |
| *Drill/Ballast Water:* | 880 gpm @ 300 ft | 200 $m^3$/h @ 90 m |
| *Bulk:* | 35.9 cfm @ 190 ft | 61 $m^3$/h @ 57 m |
| *Liquid Mud:* | 330 gpm @ 800 ft | 75 $m^3$/h @ 240 m |
| *Base Oil:* | 660 gpm @ 300 ft | 150 $m^3$/h @ 90 m |
| *Brine:* | 330 gpm @ 800 ft | 75 $m^3$/h @ 240 m |
| *Methanol:* | 330 gpm @ 400 ft | 75 $m^3$/h @ 120 m |

### Nav/Comms Equipment

| | |
|---|---|
| **Radar(s):** | 2 |
| **Depth Sounder:** | 1 |
| **Gyro Compass:** | 3 |
| **Wind Speed Indicators:** | 3 |
| **Doppler Log:** | 1 |
| **Radio:** | 3 x VHF |

### Special Equipment

| | |
|---|---|
| **Firefighting:** | FiFi-1 |
| **Dynamic Positioning:** | DP-2 |
| *Ref. Systems:* | 2 x MRU; 2 x DGPS<br>1 x Microwave-based; 1 x Laser-based |
| **Mud Circulation System/ Mud Mixers:** | Yes/Yes |
| **Rescue Boat:** | (1) Solas Approved |
| **Fuel Monitoring:** | FUELTRAX |
| **Reefer Sockets:** | 8x 440V 32A; 4x 120V 5A |
| **SPS Compliant:** | Yes |
| **Misc:** | MSD - 60 PERSONS; Siemens BlueDrive +C; ORO Capacity - 1494.9 m3 |

*Approximate values assuming Ideal Conditions

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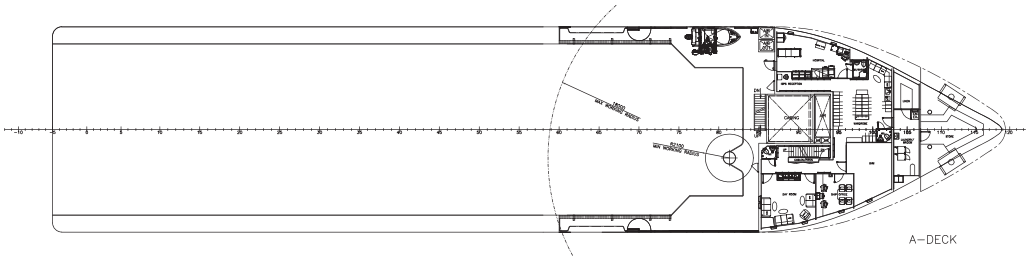
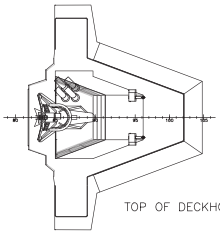
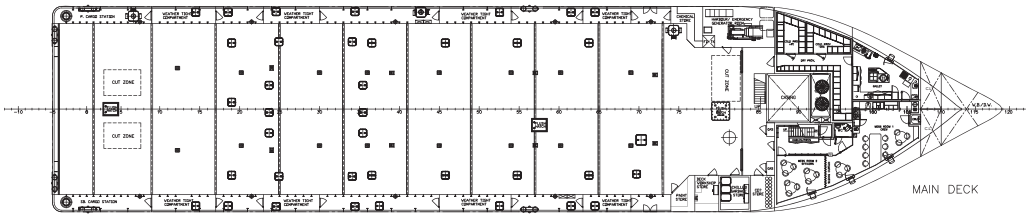
## General Arrangement (Current configuration may vary.)



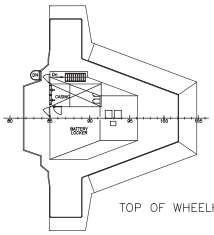
A–DECK



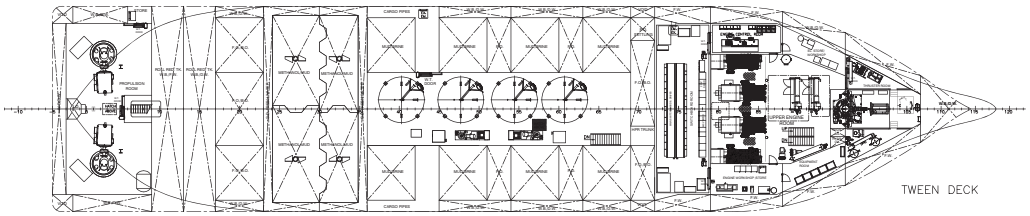
TOP OF DECKHOUSE



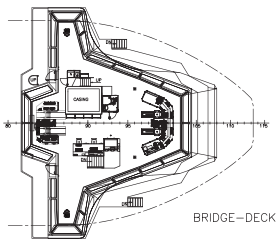
MAIN DECK



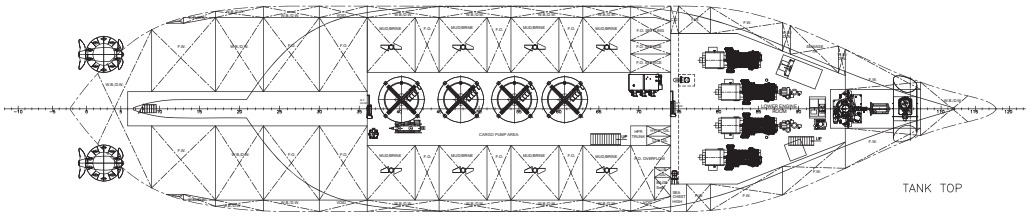
TOP OF WHEELHOUSE



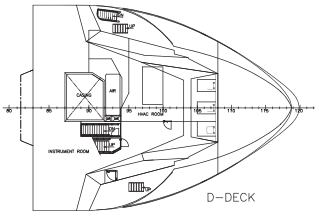
TWEEN DECK



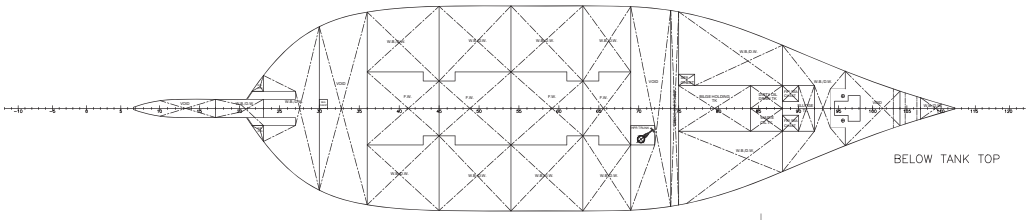
BRIDGE–DECK



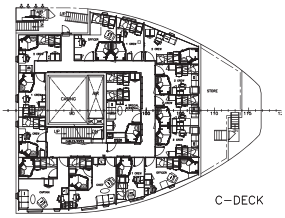
TANK TOP



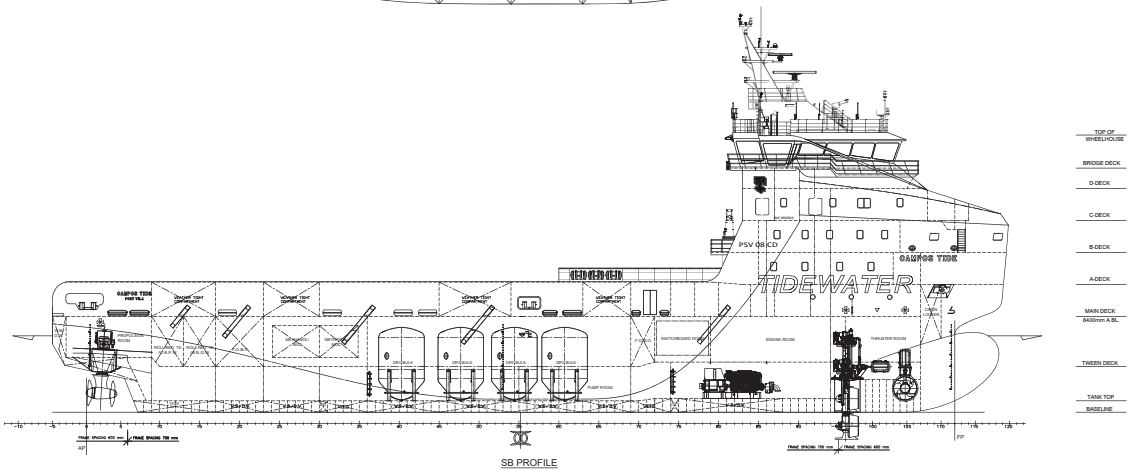
D–DECK



BELOW TANK TOP

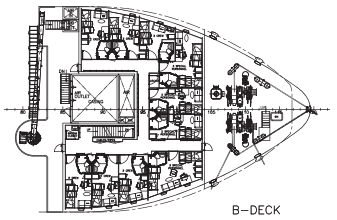


C–DECK




SB PROFILE

TOP OF WHEELHOUSE
BRIDGE DECK
D-DECK
C-DECK
B-DECK
A-DECK
MAIN DECK
TWEEN DECK
TANK TOP
BASELINE



B–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. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 WB/DW | DW/WB | 124.6 | | | | 124.6 | | | | | | | | |
| 05 WB/DW | DW/WB | 33.6 | | | | 33.6 | | 33.6 | | | | | | |
| 11 WB/DW | DW/WB | 29.4 | | | | 29.4 | | 29.4 | | | | | | |
| 12 WB/DW | DW/WB | 29.4 | | | | 29.4 | | 29.4 | | | | | | |
| 13 WB/DW | DW/WB | 44.2 | | | | 44.2 | | 44.2 | | | | | | |
| 14 WB/DW | DW/WB | 44.2 | | | | 44.2 | | 44.2 | | | | | | |
| 15 WB/DW | DW/WB | 44.2 | | | | 44.2 | | 44.2 | | | | | | |
| 16 WB/DW | DW/WB | 44.2 | | | | 44.2 | | 44.2 | | | | | | |
| 19 WB/DW | DW/WB | 20.0 | | | | 20.0 | | 20.0 | | | | | | |
| 20 WB/DW | DW/WB | 20.0 | | | | 20.0 | | 20.0 | | | | | | |
| 21 WB/DW | DW/WB | 217.5 | | | | 217.5 | | 217.5 | | | | | | |
| 22 WB/DW | DW/WB/FW | 211.8 | | | | 211.8 | | 211.8 | | | | | | |
| 23 WB/DW | DW/WB | 18.4 | | | | 18.4 | | 18.4 | | | | | | |
| 24 WB/DW | DW/WB | 28.3 | | | | 28.3 | | 28.3 | | | | | | |
| 25 WB/DW | DW/WB | 120.5 | | | | 120.5 | | | | | | | | |
| 28 WB/DW | DW/WB | 29.6 | | | | 29.6 | | 29.6 | | | | | | |
| 29 WB/DW | DW/WB | 47.1 | | | | 47.1 | | 47.1 | | | | | | |
| 30 WB/DW | DW/WB | 48.7 | | | | 48.7 | | 48.7 | | | | | | |
| 33 WB/DW | DW/WB | 27.1 | | | | 27.1 | | 27.1 | | | | | | |
| 34 WB/DW | DW/WB | 27.1 | | | | 27.1 | | 27.1 | | | | | | |
| 37 WB/DW | DW/WB | 40.4 | | | | 40.4 | | 40.4 | | | | | | |
| 38 WB/DW | DW/WB | 40.4 | | | | 40.4 | | 40.4 | | | | | | |
| 39 WB/DW | DW/WB | 40.1 | | | | 40.1 | | 40.1 | | | | | | |
| 40 WB/DW | DW/WB | 40.1 | | | | 40.1 | | 40.1 | | | | | | |
| 43 WB/DW | DW/WB | 60.5 | | | | 60.5 | | 60.5 | | | | | | |
| 44 WB/DW | DW/WB | 60.5 | | | | 60.5 | | 60.5 | | | | | | |
| 46 WB/DW | DW/WB | 93.0 | | | | 93.0 | | 93.0 | | | | | | |
| 47 WB/DW | DW/WB | 6.6 | | | | 6.6 | | 6.6 | | | | | | |
| 67 WB/DW | DW/WB | 59.8 | | | | 59.8 | | 59.8 | | | | | | |
| 68 WB/DW | DW/WB | 59.8 | | | | 59.8 | | 59.8 | | | | | | |
| 03 FW | Ships FW | 54 | | | | | 54.0 | | | | | | | |
| 04 FW | Ships FW | 54 | | | | | 54.0 | | | | | | | |
| 06 FW | FW | 57.4 | | | | | | 57.4 | | | | | | |
| 07 FW | FW | 66.2 | | | | | | 66.2 | | | | | | |
| 08 FW | FW | 66.2 | | | | | | 66.2 | | | | | | |
| 09 FW | FW | 46.1 | | | | | | 46.1 | | | | | | |
| 10 FW | FW | 46.3 | | | | | | 46.3 | | | | | | |
| 35 FW | FW | 24.1 | | | | | | 24.1 | | | | | | |
| 36 FW | FW | 37.3 | | | | | | 37.3 | | | | | | |
| 41 FW | FW | 37.3 | | | | | | 37.3 | | | | | | |
| 42 FW | FW | 37.2 | | | | | | 37.2 | | | | | | |
| 69 FW | FW | 41.1 | | | | | | 41.1 | | | | | | |
| 70 FW | FW | 41.1 | | | | | | 41.1 | | | | | | |
| 51 FO | FO | 71.9 | | 71.9 | | | | | | | | | | |
| 52 FO | FO | 71.9 | | 71.9 | | | | | | | | | | |
| 55 FO | FO | 71.9 | | 71.9 | | | | | | | | | | |
| 56 FO | FO | 71.9 | | 71.9 | | | | | | | | | | |
| 59 FO | FO | 27.3 | | 27.3 | | | | | | | | | | |
| 60 FO | FO | 27.3 | | 27.3 | | | | | | | | | | |
| 63 FO | FO | 65.5 | | 65.5 | | | | | | | | | | |
| 64 FO | FO | 65.5 | | 65.5 | | | | | | | | | | |
| 65 FO | FO | 60.4 | | 60.4 | | | | | | | | | | |
| 66 FO | FO | 60.4 | | 60.4 | | | | | | | | | | |
| 75 FO/BO | FO/BO | 86.6 | 86.6 | 86.6 | | | | | | | | | | |
| 76 FO/BO | FO/BO | 86.6 | 86.6 | 86.6 | | | | | | | | | | |
| 77 FO/BO | FO/BO | 115.9 | 115.9 | 115.9 | | | | | | | | | | |
| 78 FO/BO | FO/BO | 65.9 | 65.9 | 65.9 | | | | | | | | | | |
| 79 FO/BO | FO/BO | 42.1 | 42.1 | 42.1 | | | | | | | | | | |
| 85 FO Settling | FO | 37.6 | | 37.6 | | | | | | | | | | |
| 86 FO Service | FO | 12.8 | | 12.8 | | | | | | | | | | |
| 87 FO Service | FO | 17.2 | | 17.2 | | | | | | | | | | |
| 90 FO Overflow | FO | 38.3 | | 38.3 | | | | | | | | | | |
| 98 FO EMGEN | FO | 3.7 | | 3.7 | | | | | | | | | | |
| 49 Mud/Brine | LM/BR | 145.9 | | | | | | | | 145.9 | | | | |
| 50 Mud/Brine | LM/BR | 145.9 | | | | | | | | 145.9 | | | | |
| 53 Mud/Brine | LM/BR | 145.9 | | | | | | | | 145.9 | | | | |
| 54 Mud/Brine | LM/BR | 145.9 | | | | | | | | 145.9 | | | | |
| 57 Mud/Brine | LM/BR | 145.9 | | | | | | | | 145.9 | | | | |
| 58 Mud/Brine | LM/BR | 145.9 | | | | | | | | 145.9 | | | | |
| 61 Mud/Brine | LM/BR | 138.4 | | | | | | | | 138.4 | | | | |
| 62 Mud/Brine | LM/BR | 138.4 | | | | | | | | 138.4 | | | | |
| 71 Meth/Mud | METH/LM | 71.5 | | | | | | | | 71.5 | 71.5 | | | |
| 72 Meth/Mud | METH/LM | 75.4 | | | | | | | | 75.4 | 75.4 | | | |
| 73 Meth/Mud | METH/LM | 95.8 | | | | | | | | 95.8 | 95.8 | | | |
| 74 Meth/Mud | METH/LM | 100.0 | | | | | | | | 100.0 | 100.0 | | | |
| 81 CEM | Dry Bulk | 61.0 | | | 61.0 | | | | | | | | | |
| 82 CEM | Dry Bulk | 61.0 | | | 61.0 | | | | | | | | | |
| 83 CEM | Dry Bulk | 61.0 | | | 61.0 | | | | | | | | | |
| 84 CEM | Dry Bulk | 61.0 | | | 61.0 | | | | | | | | | |
| 89 Lube Oil | LO | 5.3 | | | | | | | | | | 5.3 | | |
| 91 Lube Oil | LO | 3.8 | | | | | | | | | | 3.8 | | |
| | | | | | | | | | | | | | | |
| Total Volume [$m^3$] | | | 397.1 | 1,100.7 | 244.0 | 1,711.1 | 108.0 | 1,966.3 | 0.0 | 1,494.9 | 342.7 | 9.1 | 0.0 | 0.0 |
| Spec Sheet Total Volume [$m^3$] | | | 397.1 | 1,028.7 | 244.0 | 245.1 | 108.0 | 1,966.3 | 0.0 | 1,494.9 | 342.7 | 9.1 | 0.0 | 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

## VARD PSV 08 VZJ6257-1201-1206

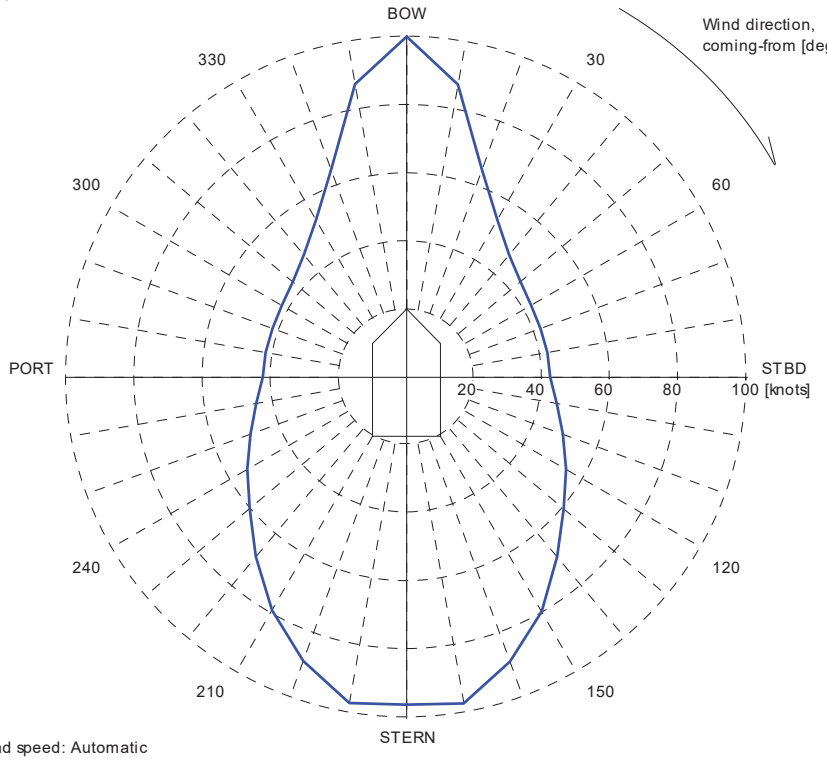
| | | |
|---|---|---|
| Case number | : | 1 |
| Case description | : | Optimum use of all thrusters |
| Thrusters active | : | T1-T4 |
| Rudders active | : | |

| | | |
|---|---|---|
| Version | : | StatCap v. 2.10.0 |
| Input file reference | : | Foot_4739_MidDraught.scp |
| Last modified | : | 2014-09-09 09.50 |
| Length overall | : | 83.8 m |
| Length between perpendiculars | : | 76.1 m |
| Breadth | : | 18.0 m |
| Draught | : | 5.8 m |
| Displacement | : | 6123.1 t (Cb = 0.75) |
| Longitudinal radius of inertia | : | 19.0 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 | 33.8 | 0.0 | 13.2 | -13.2 | 100 | 880 | |
| 2 | AZIMUTH | 28.6 | 0.0 | 15.6 | 0.0 | 100 | 880 | |
| 3 | AZIMUTH | -36.8 | -4.7 | 28.3 | -17.4 | 100 | 1600 | |
| 4 | AZIMUTH | -36.8 | 4.7 | 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



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