**Vessel Characteristics**

- **Length, Overall:** 212.6 ft (64.8 m)
- **Beam:** 52.5 ft (16 m)
- **Depth:** 19 ft (5.8 m)
- **Maximum Draft:** 16 ft (4.9 m)
- **Minimum Height:** 83 ft (25.3 m)
- **Freeboard:** 3 ft (0.9 m)
- **Displacement:** 3,540 lt (3,600 mt)
- **Deadweight:** 2,020 lt (2,050 mt)
- **Clear Deck Space:** 110 x 43 ft (35 x 13.1 m)
- **Clear Deck Area:** 4,890 ft² (450 m²)
- **Deck Strength:** 1,110 lb/ft² (5.4 t/m²)

---

**Class Notations:**
- ABS: +A1, TOWING VESSEL, FFV-1, OSV AH, (E), +AMS, +DPS-1
### Deck Cargo
- 980 lt 1,000 t

### Fuel Oil
- 126,000 gal 480 m³

### Potable Water
- 52,800 gal 200 m³

### Fresh Water
- 222,000 gal 840 m³

### Drill/Ballast Water
- 44,100 gal 170 m³

### Bulk Tanks (4 tanks):
- 6,000 ft³ 170 m³

### Liquid Mud (21 lbs/gal):
- 3,280 bbl 520 m³

### Base Oil:
- 920 bbl 150 m³

### Brine:
- 920 bbl 150 m³

### Oil Dispersant:
- 3,720 gal 14.1 m³

### Fire Fighting Foam:
- 3,720 gal 14.1 m³

### Main Engines (2):
- CAT 3608 DITA
- Total HP: 6,600

### Propellers (2):
- CPP 4 BLADES 2800mm

### Kort Nozzles:
- 2

### Primary Generators (2):
- 320 kw 440 v 60 Hz
  - Driven by: CAT 3406 DITA

### Secondary Generators (1):
- 360 kw 440 v 60 Hz
  - Driven by: MAIN ENGINE

### Emergency Generators (1):
- 94 kw 440 v 60 Hz
  - Driven by: CAT 3056T

### Bow Thruster (1):
- R.R. TT1650 DPN CP (535KW)
  - Driven by: CAT 3412 DITA (536KW)

### Total Thrust:
- 8.8 st 8 mt

*(Approximate values assuming Ideal Conditions)*

### Fuel Consumption Vs Speed

- **Maximum:** 27 m³/day (300 gph) @ 14.5 knots
- **Cruising:** 22 m³/day (240 gph) @ 12 knots
- **Economical:** 16 m³/day (180 gph) @ 9 knots
- **Standby:** 1.9 m³/day (21 gph) @ 0 knots

### Range @ 12 Knots:
- 6,270 nm

### Bollard Pull:
- 77.8 st 70.6 mt

### Winch:
- ELECTRO-HYDRAULIC, DOUBLE DRUM WATERFALL (200T BRAKE)
  - Model: ZICOM 150 T
  - Line Pull: 150 mt
  - Tow Wire: 3,280 m of 2 mm
  - Work Wire: 3,280 m of 2 mm
  - Pennant Reels (1):
    - 1000 m of 50.8 mm
  - Chain Stopper:
    - 1 SET 300T KARM FORK
  - Tow Pins:
    - (2) 300T SWL
  - Stern Roller:
    - 9.8 FT X 4.9 FT, 300 mt SWL

### Anchor (2):
- 4,630 lbs STOCKLESS BOWER

### Anchor Chain:
- 440 m of 40.6 mm chain per side

### Crane:
- 0.6 t @ 7 m

### Capstans (2):
- 5 t ZICOM (15m/min)

### Tugger (2):
- 10 t ZICOM 100KN (10m/min)

### Radar(s):
- 2

### Depth Sounder:
- 1

### Gyro Compass:
- 2

### Doppler Log:
- 1

### Radio:
- 2 x VHF; 1 x SSB

### Sat Com:
- 1xINMARSAT-C

### No of Berths:
- 26

### 1-man cabins: 4
- 2-man cabins: 5
- 4-man cabins: 3

### Certified to Carry:
- 26

### Galley seating:
- 34

### Hospital:
- Yes

### Firefighting:
- FiFi-1

### Ref. Systems:
- 1 x MRU; 2 x DGPS

### Mud Mixers:
- Yes

### Rescue Boat:
- PER SOLAS 6 MAN

### Flag:
- Vanuatu

### IMO N°:
- 9376244

### Year Built:
- 2008

### Call Sign:
- YJVB9

### Builder:
- PAN UNITED SHIPYARDS

### Tonnage (ITC):
- 1868 GT
- 588 NT

### Deck. Equip.

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- ELECTRO-HYDRAULIC, DOUBLE DRUM WATERFALL (200T BRAKE)

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- ZICOM 150 T

### Line Pull:
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## Capacity Table

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<th>Contents</th>
<th>Volume m³</th>
<th>Base Oil</th>
<th>Fuel Oil</th>
<th>Dry Bulk</th>
<th>DW/WB</th>
<th>Potable Water</th>
<th>Fresh Water</th>
<th>Brine</th>
<th>Liquid Mud</th>
<th>Methanol</th>
<th>Lube Oil</th>
<th>Foam</th>
<th>Oil Disp.</th>
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**Total Volume [m³]**: 142.2, 594.0, 169.9, 180.8, 200.0, 934.5, 0.0, 440.3, 0.0, 12.2, 14.1, 14.1

**Spec Sheet Total Volume [m³]**: 142.2, 472.0, 169.9, 166.8, 200.0, 934.5, 0.0, 440.3, 0.0, 12.2, 14.1, 14.1

*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.
DP Capability Plot

SMITH TIDE AND FONSECA TIDE

Input file reference: Sdp25202and25203 scp
Last modified: 2007-02-15 11:47 (v. 2.5.1)

Length overall: 64.8 m
Length between perpendiculars: 58.7 m
Breadth: 16.0 m
Draft: 4.2 m
Displacement: 2961.0 t (Cb = 0.73)
Longitudinal radius of inertia: 14.7 m (> 0.25 * Lpp)
Pos. of origin ahead of Lpp/2 (Xo): 0.0 m
Wind load coefficients: Calculated (Blendersmann)
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
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 tfm
Density of salt water: 1026.0 kg/m³
Density of air: 1.226 kg/m³

Power limitations: OFF

# Thruster X[m] Y[m] F+[tf] F-+tf Max[%] Pe[kW] Rudder
1 TUNNEL 23.0 0.0 6.5 6.5 100 535
2 PROP AS -34.0 -4.4 32.6 -19.0 100 2000 CUSTOM
3 PROP AS -34.0 4.4 32.6 -19.0 100 2000 CUSTOM

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