<table>
<thead>
<tr>
<th>Vessel Characteristics</th>
<th>Length, Overall: 192.6 ft 58.7 m</th>
<th>Beam: 47.9 ft 14.6 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depth:</td>
<td>18 ft 5.5 m</td>
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<tr>
<td>Maximum Draft:</td>
<td>15.6 ft 4.8 m</td>
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<tr>
<td>Minimum Height:</td>
<td>70.1 ft 21.3 m</td>
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<tr>
<td>Freeboard:</td>
<td>2.4 ft 0.7 m</td>
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<tr>
<td>Displacement:</td>
<td>2,790 lt 2,830 mt</td>
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<tr>
<td>Deadweight:</td>
<td>1,270 lt 1,300 mt</td>
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<tr>
<td>Clear Deck Space:</td>
<td>96 x 40 ft 29.3 x 12.3 m</td>
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<tr>
<td>Clear Deck Area:</td>
<td>3,820 ft(^2) 350 m(^2)</td>
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<tr>
<td>Deck Strength:</td>
<td>1,430 lb/ft(^2) 7 t/m(^2)</td>
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</tbody>
</table>

Class Notations:
ABS: +A1, (E), +AMS, +DPS-2, FFV-1, OSV, AH, TOWING VESSEL, UWILD

Last update: 6/13/2016
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**Deckwater Boutros Tide**

### Deck Cargo:
- 540 ft 550 t

### Fuel Oil:
- 127,000 gal 480 m³

### Potable Water:
- 66,700 gal 250 m³

### Drill/Ballast Water:
- 97,600 gal 370 m³

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

### Liquid Mud (21 lbs/gal):
- 1,590 bbl 250 m³

### Oil Dispersant:
- 3,570 gal 13.5 m³

### Fire Fighting Foam:
- 3,570 gal 13.5 m³

### Main Engines (2):
- CAT 3516 BT-HD
  - Total HP: 5,150

### Propellers (2):
- CPP, 4 BLADE

### Kort Nozzles:
- 2

### Primary Generators (3):
- 450 kw 410 v 50 Hz
- CAT C18

### Secondary Generators (2):
- 1000 kw 410 v 50 Hz
- Driven by: Cummins PM 734C2

### Emergency Generators (1):
- 65 kw 410 v 50 Hz
- Kawasaki, KT-883 CPP

### Bow Thruster (2):
- 650 kW Electric Motor

### Stern Thruster (1):
- Kawasaki, KT-883 CPP

### Winch:
- Hydraulic Waterfall Double-Drum (200T Brake)
- MacGregor Plimsoll

### Line Pull:
- 150 mt

### Tow Wire:
- 3,280 m of 2.2 mm

### Work Wire:
- 3,280 m of 2.2 mm

### Pennant Reels (1):
- 1000 m of 56 mm

### Shark Jaw:
- 1 set @ 200MT SWL

### Tow Pins:
- 2 @ 200MT SWL

### Tow Roller:
- 5.0m x 1.6m DIA; 200 mt SWL

### (Approximate values assuming Ideal Conditions)

#### Fuel Consumption Vs Speed

- **Maximum:** 25 m³/day (280 gph) @ 13.5 knots
- **Cruising:** 19 m³/day (210 gph) @ 12.4 knots
- **Economical:** 13 m³/day (150 gph) @ 9.6 knots
- **Standby:** 2.2 m³/day (24.2 gph) @ 0 knots

#### Range @ 12.4 Knots:
- 7,580 nm

### Bollard Pull
- 68.8 st 62.4 mt

### Transfer Rates
- **Fuel Oil:** 620 gpm @ 250 ft 140 m³/h @ 75 m
- **Drill/Ballast Water:** 440 gpm @ 250 ft 100 m³/h @ 75 m
- **Bulk:** 25 cfm @ 180 ft 42.5 m³/h @ 56 m
- **Liquid Mud:** 310 gpm @ 250 ft 70 m³/h @ 75 m
### Capacity Table

<table>
<thead>
<tr>
<th>Tank</th>
<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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</table>

*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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DP Capability Plot
GMG0888/0889/0899/08100

Input file reference: foot_3229.scp
Last modified: 2009-09-06 07.39 (v. 2.6.2)

Length overall: 58.7 m
Length between perpendiculars: 53.2 m
Breadth: 14.6 m
Draught: 4.8 m
Displacement: 3000.0 t (Cb = 0.78)
Longitudinal radius of inertia: 13.3 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: ON

# Thruster X [m] Y [m] F+ [tf] F- [tf] Max [%] Pe [kW] Rudder
1 TUNNEL 22.5 0.0 10.1 -10.1 100 675
2 TUNNEL 19.2 0.0 10.1 -10.1 100 675
3 TUNNEL -23.4 0.0 10.1 -10.1 100 675
4 PROP AS -26.5 3.5 33.5 -23.4 100 1100 CUSTOM
5 PROP AS -26.5 -3.5 33.5 -23.4 100 1100 CUSTOM

Limiting 1 minute mean wind speed in knots at 10 m above sea level

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