### Vessel Characteristics

<table>
<thead>
<tr>
<th>Specification</th>
<th>Measurement</th>
<th>Unit</th>
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<tbody>
<tr>
<td>Length, Overall</td>
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<td>Beam</td>
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<td>Depth</td>
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<td>Maximum Draft</td>
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<td>Minimum Height</td>
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<td>Freeboard</td>
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<td>Displacement</td>
<td>2,840 lt</td>
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<td>Deadweight</td>
<td>1,320 lt</td>
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<td>Clear Deck Space</td>
<td>90 x 41 ft</td>
<td>27.4 x 12.4 m</td>
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<td>Clear Deck Area</td>
<td>3,660 ft²</td>
<td>340 m²</td>
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<tr>
<td>Deck Strength</td>
<td>1,540 lb/ft²</td>
<td>7.5 t/m²</td>
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Class Notations:
ABS: +A1, (E), Towing Vessel, OSV, FFV-1, +AMS
### Deck Cargo:
- 490 ft
- 500 t

### Fuel Oil:
- 134,000 gal
- 510 m³

### Potable Water:
- 22,600 gal
- 85.7 m³

### Fresh Water:
- 71,800 gal
- 270 m³

### Drill/Ballast Water:
- 105,000 gal
- 400 m³

### Bulk Tanks (4 tanks):
- 6,600 ft³
- 190 m³

### Liquid Mud (21 lbs/gal):
- 2,390 bbl
- 380 m³

### Oil Dispersant:
- 3,520 gal
- 13.3 m³

### Fire Fighting Foam:
- 3,520 gal
- 13.3 m³

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### Towing/Anchor Handling

- **Winch:**
  - Plimsoll (6m/min)
- **Model:**
  - Electro-Hydraulic w/200t Brake
- **Line Pull:**
  - 150 mt
- **Tow Wire:**
  - 1000 m of 56 mm
- **Work Wire:**
  - 1000 m of 56 mm
- **Pennant Reels (1):**
  - 1000 m of 56 mm
- **Shark Jaw:**
  - Plimsoll 200 MT
- **Tow Pins:**
  - Plimsoll 200 MT (1 set)
- **Stern Rotary:**
  - 4.4m x 1.6m; 200 mt SWL

### Accommodations

- **No of Berths:**
  - 42
- **1-man cabins:**
  - 4
- **2-man cabins:**
  - 3
- **4-man cabins:**
  - 8
- **Certified to Carry:**
  - 42
- **Galley seating:**
  - 30
- **Hospital:**
  - Yes

### Special Equip.

- **Radar(s):**
  - 2
- **Depth Sounder:**
  - 1
- **Gyro Compass:**
  - 2
- **Doppler Log:**
  - 1
- **Radio:**
  - 2 x VHF; 1 x SSB
- **Sat Com:**
  - 1 x Inmarsat-C

### Tow/Anchor Handling

- **Anchors (2):**
  - 2887 lbs HHP STOCKLESS
- **Anchor Chain:**
  - 220 m of 36 mm chain per side
- **Capstans (2):**
  - 5 t Plimsoll (15m/min)
- **Tugger (2):**
  - 10 t Plimsoll (15m/min)

### Deck Equip.

- **Winch:**
  - Kawasaki KT-7283 CPP
- **Driven by:**
  - 515kW Electric Motor
- **Total Thrust:**
  - 17.3 st 15.7 mt

### Nav/Comm Eq.

- **Flag:**
  - VANUATU
- **IMO No:**
  - 9615810
- **Year Built:**
  - 2011
- **Builder:**
  - FUJIAN SOUTHEAST SHIPYARD
- **Call Sign:**
  - YJRB7
- **Tonnage:**
  - 1678 GT 503 NT

### Machinery

- **Main Engines (2):**
  - CAT 3516B-HD
  - **Total HP:**
    - 5,150
- **Propellers (2):**
  - KH680 4 Blade CPP
- **Kort Nozzles:**
  - 2
- **Primary Generators (2):**
  - 350 kw
  - 410 v
  - 50 Hz
  - **Driven by:**
    - CAT C18
- **Secondary Generators (2):**
  - 800 kw
  - 410 v
  - 50 Hz
  - **Driven by:**
    - Main Engines
- **Emergency Generators (1):**
  - 65 kw
  - 410 v
  - 50 Hz
  - **Driven by:**
    - CAT 2438/1500
- **Bow Thruster (2):**
  - Kawasaki KT-7283 CPP
  - **Driven by:**
    - 515kW Electric Motor
  - **Total Thrust:**
    - 17.3 st 15.7 mt

### Performance

- **(Approximate values assuming Ideal Conditions)**
  - **Fuel Consumption Vs Speed**
    - Maximum:
      - 21 m³/day (230 gph) @ 13 knots
    - Cruising:
      - 16 m³/day (180 gph) @ 10 knots
    - Economical:
      - 12 m³/day (130 gph) @ 8 knots
    - Standby:
      - 2.2 m³/day (24.2 gph) @ 0 knots
  - **Range @ 10 Knots:**
    - 7,440 nm
  - **Bollard Pull:**
    - 74.4 st
  - **Transfer Rates**
    - **Fuel Oil:**
      - 660 gpm @ 250 ft
      - 150 m³/h @ 75 m
    - **Fresh Water:**
      - 550 gpm @ 250 ft
      - 120 m³/h @ 75 m
    - **Drill/Ballast Water:**
      - 440 gpm @ 250 ft
      - 100 m³/h @ 75 m
    - **Bulk:**
      - 28 cfm @ 190 ft
      - 47.6 m³/h @ 57 m
    - **Liquid Mud:**
      - 310 gpm @ 280 ft
      - 70 m³/h @ 85 m

### Firefighting

- **FiFi-1**

### Dynamic Positioning

- **Dynamic Positioning:**
  - DP-1 UNCLASSED

### Ref. Systems

- **1 x MRU; 2 x DGPS**

### Water Maker

- **5T/Day**

### Mud Circulation System

- **Yes**

### Rescue Boat

- **6 Man SOLAS Approved**

### Capacities

- **Max Engines:**
  - 5,150 HP
- **Main Propulsion:**
  - CAT 3516B-HD
- **Primary Propulsion:**
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- **Liquid Mud:**
  - 310 gpm @ 280 ft
  - 70 m³/h @ 85 m
General Arrangement (Current configuration may vary.)

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## Tank Table

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<th>Contents</th>
<th>Volume [m^3]</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>
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</tr>
<tr>
<td><strong>Spec Sheet Total Volume [m^3]</strong></td>
<td></td>
<td>0.0</td>
<td>508.2</td>
<td>186.9</td>
<td>396.4</td>
<td>85.7</td>
<td>271.6</td>
<td>0.0</td>
<td>380.2</td>
<td>0.0</td>
<td>6.4</td>
<td>13.3</td>
<td>13.3</td>
<td></td>
</tr>
</tbody>
</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.*
DP Capability Plot

FUJIAN DN59M-83

Input file reference : 59372_Bscp
Last modified : 2011-05-30 12.43 (v. 2.8.0)

Length overall : 59.3 m
Length between perpendiculars : 52.2 m
Breadth : 14.9 m
Draft : 4.9 m
Displacement : 2755.0 t (Cb = 0.70)
Longitudinal radius of inertia : 13.1 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 20.7 0.0 6.0 -6.0 100 390
2 PROP_AS -26.0 -3.3 33.9 -23.8 100 1920 BECKER
3 PROP_AS -26.0 3.3 33.9 -23.8 100 1920 BECKER

VARIABLE WIND AND WAVES
Limiting 1 minute mean wind speed in knots
at 10 m above sea level

Wind speed: Automatic
Significant wave height: IMCA (North Sea)
Mean zero up-crossing period: IMCA (North Sea)
Rotating tidal current: 1.00 knots
Rotating wind induced current: 0.000*Uwi knots

NOTICE: The data contained herein is provided for convenience of reference to allow users to determine the suitability of the Company’s equipment. The data may vary from the current condition of equipment which can only be determined by physical inspection. Company has exercised due diligence to insure that the data contained herein is reasonably accurate. However, Company does not warrant the accuracy or completeness of the data. In no event shall Company be liable for any damages whatsoever arising out of the use or inability to use the data contained herein.