Fujian SE 5,150 BHP
Anchor Handling Tug
LACOSTE TIDE

Length, Overall: 194.3 ft 59.3 m
Beam: 49 ft 15 m
Depth: 20 ft 6.1 m
Maximum Draft: 16.3 ft 5 m
Minimum Height: 77.8 ft 23.7 m
Freeboard: 3.7 ft 1.1 m
Displacement: 2,840 lt 2,880 mt
Deadweight: 1,320 lt 1,340 mt
Clear Deck Space: 90 x 41 ft 27.4 x 12.4 m
Clear Deck Area: 3,660 ft² 340 m²
Deck Strength: 1,540 lb/ft² 7.5 t/m²

Class Notations:
ABS: +A1, (E), Towing Vessel, OSV, FFV-1, +AMS, CRC

D’SOUZA TIDE as shown
LACOSTE TIDE similar

Last update: 6/10/2016
### Capacities

<table>
<thead>
<tr>
<th>Deck Cargo:</th>
<th>490 ft</th>
<th>500 t</th>
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<tbody>
<tr>
<td>Fuel Oil:</td>
<td>131,000 gal</td>
<td>500 m³</td>
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<tr>
<td>Potable Water:</td>
<td>22,600 gal</td>
<td>85.6 m³</td>
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<td>Fresh Water:</td>
<td>72,600 gal</td>
<td>270 m³</td>
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<tr>
<td>Drill/Ballast:</td>
<td>106,000 gal</td>
<td>400 m³</td>
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<tr>
<td>Bulk Tanks (4 tanks):</td>
<td>6,600 ft³</td>
<td>190 m³</td>
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<tr>
<td>Liquid Mud (21 lbs/gal):</td>
<td>2,380 bbl</td>
<td>380 m³</td>
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<tr>
<td>Oil Dispersant:</td>
<td>3,520 gal</td>
<td>13.3 m³</td>
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<tr>
<td>Fire Fighting Foam:</td>
<td>3,520 gal</td>
<td>13.3 m³</td>
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</table>

### 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-72B3 CPP
  - Driven by: 515kw Electric Motor
- Total Thrust: 17.3 st 15.7 mt

### Deck, Equip.

### 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 KARM FORK

### Tow Pins:
- Plimsoll 200 MT (1 set)

### Stern Roller:
- 4.4m x 1.6m; 200 mt SWL

### Anchors (2):
- 2893 lbs HHP STOCKLESS

### Anchor Chain:
- 220 m of 36 mm chain per side

### Crane:
- 3 t @ 9 m

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

### Tugger (2):
- 10 t Plimsoll (15m/min)

### 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

### N° of Berths:
- 42

### 1-man cabins:
- 4

### 2-man cabins:
- 3

### 4-man cabins:
- 8

### Certified to Carry:
- 42

### Galley seating:
- 30

### Hospital:
- Yes

### Firefighting:
- FiFi-1

### 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

### Deck Cargo:
- 490 lt | 500 t

### Fuel Oil:
- 131,000 gal | 500 m³

### Potable Water:
- 22,600 gal | 85.6 m³

### Fresh Water:
- 72,600 gal | 270 m³

### Drill/Ballast:
- 106,000 gal | 400 m³

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

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

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

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

### 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-72B3 CPP
  - Driven by: 515kw Electric Motor

### Total Thrust:
- 17.3 st 15.7 mt

### (Approximate values assuming Ideal Conditions)

#### Fuel Consumption Vs Speed

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<tr>
<th>Speed</th>
<th>Fuel Consumption</th>
</tr>
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<tbody>
<tr>
<td>13 knots</td>
<td>21 m³/day (230 gph)</td>
</tr>
<tr>
<td>10 knots</td>
<td>16 m³/day (180 gph)</td>
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<tr>
<td>8 knots</td>
<td>12 m³/day (130 gph)</td>
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<tr>
<td>0 knots</td>
<td>2.2 m³/day (24.2 gph)</td>
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</table>

#### Range @ 10 Knots:
- 7,440 nm

#### Bollard Pull:
- 74 st 67.2 mt

#### Transfer Rates

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<th>Fuel Oil:</th>
<th>660 gpm @ 250 ft</th>
<th>150 m³/h @ 75 m</th>
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</thead>
<tbody>
<tr>
<td>Fresh Water:</td>
<td>550 gpm @ 250 ft</td>
<td>120 m³/h @ 75 m</td>
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<tr>
<td>Drill/Ballast:</td>
<td>440 gpm @ 250 ft</td>
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<tr>
<td>Bulk:</td>
<td>28 cfm @ 190 ft</td>
<td>47.6 m³/h @ 57 m</td>
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<td>Liquid Mud:</td>
<td>310 gpm @ 280 ft</td>
<td>70 m³/h @ 85 m</td>
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### Flag:
- VANUATU

### IMO No:
- 9586954

### Year Built:
- 2011

### Builder:
- FUJIAN SOUTHEAST SHIPYARD

### Call Sign:
- YJQV2

### Tonnage (ITC):
- 1674 GT 502 NT

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### Tank Table

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<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>

**Total Volume** [m³]  
0.0  539.9  186.9  396.4  85.7  271.6  0.0  380.2  0.0  6.4  13.3  13.3

**Spec Sheet Total Volume** [m³]  
0.0  508.2  186.9  396.4  85.7  271.6  0.0  380.2  0.0  6.4  13.3  13.3

*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

**FUJIAN DN59M-83**

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<tbody>
<tr>
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<td>: 2011-05-30 12:43 (v. 2.8.0)</td>
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</table>

- **Length overall**: 59.3 m
- **Length between perpendiculars**: 52.2 m
- **Breadth**: 14.9 m
- **Draught**: 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
- **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 Performance

<table>
<thead>
<tr>
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<td>1920</td>
<td>BECKER</td>
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<tr>
<td>3 PROP_AS</td>
<td>-26.0</td>
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<td>-23.8</td>
<td>100</td>
<td>1920</td>
<td>BECKER</td>
</tr>
</tbody>
</table>

### Wind and Waves

- **Limiting 1 minute mean wind speed in knots at 10 m above sea level**
- **Wind direction, coming-from [deg]**
- **Wave spectrum type**: JONSWAP (gamma = 3.30)

### Additional Information

- **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.