### Vessel Characteristics

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, Overall:</td>
<td>233.4 ft</td>
</tr>
<tr>
<td></td>
<td>71.2 m</td>
</tr>
<tr>
<td>Beam:</td>
<td>52.5 ft</td>
</tr>
<tr>
<td></td>
<td>16 m</td>
</tr>
<tr>
<td>Depth:</td>
<td>22.3 ft</td>
</tr>
<tr>
<td></td>
<td>6.8 m</td>
</tr>
<tr>
<td>Maximum Draft:</td>
<td>21.6 ft</td>
</tr>
<tr>
<td></td>
<td>6.6 m</td>
</tr>
<tr>
<td>Minimum Height:</td>
<td>80 ft</td>
</tr>
<tr>
<td></td>
<td>24.4 m</td>
</tr>
<tr>
<td>Freeboard:</td>
<td>3.3 ft</td>
</tr>
<tr>
<td></td>
<td>1 m</td>
</tr>
<tr>
<td>Displacement:</td>
<td>4,700 lt</td>
</tr>
<tr>
<td></td>
<td>4,770 mt</td>
</tr>
<tr>
<td>Deadweight:</td>
<td>2,510 lt</td>
</tr>
<tr>
<td></td>
<td>2,550 mt</td>
</tr>
<tr>
<td>Clear Deck Space:</td>
<td>120 x 42 ft</td>
</tr>
<tr>
<td></td>
<td>36.6 x 12.8 m</td>
</tr>
<tr>
<td>Clear Deck Area:</td>
<td>5,080 ft²</td>
</tr>
<tr>
<td></td>
<td>470 m²</td>
</tr>
<tr>
<td>Deck Strength:</td>
<td>1,020 lb/ft²</td>
</tr>
<tr>
<td></td>
<td>5 t/m²</td>
</tr>
</tbody>
</table>

Class Notations:
- ABS: +A1, +AMS, +DPS-2, (E), Towing Vessel, AH, FFV-1, OSV

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*RICHARD TIDE* as shown  
CHIASSON TIDE similar

**TIDEWATER**

Niigata Class 9,390 BHP  
Anchor Handling Tug

Last update: 3/30/2016
### Capacities

<table>
<thead>
<tr>
<th>Deck Cargo:</th>
<th>980 lt</th>
<th>1,000 t</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Oil:</td>
<td>316,000 gal</td>
<td>1,200 m³</td>
</tr>
<tr>
<td>Potable Water:</td>
<td>43,900 gal</td>
<td>170 m³</td>
</tr>
<tr>
<td>Fresh Water:</td>
<td>107,000 gal</td>
<td>400 m³</td>
</tr>
<tr>
<td>Drill/Ballast Water:</td>
<td>175,000 gal</td>
<td>660 m³</td>
</tr>
<tr>
<td>Bulk Tanks (4 tanks):</td>
<td>8,000 ft³</td>
<td>230 m³</td>
</tr>
<tr>
<td>Liquid Mud (22 lbs/gal):</td>
<td>1,300 bbl</td>
<td>210 m³</td>
</tr>
<tr>
<td>Fire Fighting Foam:</td>
<td>2,210 gal</td>
<td>8.4 m³</td>
</tr>
</tbody>
</table>

### Machinery

<table>
<thead>
<tr>
<th>Main Engines (2):</th>
<th>WARTSILA W7L32</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total HP:</td>
<td>9,390</td>
</tr>
<tr>
<td>Propellers (2):</td>
<td>WARTSILA:4 Blade, 3.6m, CPP</td>
</tr>
<tr>
<td>Kort Nozzles:</td>
<td>2</td>
</tr>
<tr>
<td>Primary Generators (3):</td>
<td>590 kw</td>
</tr>
<tr>
<td>Driven by:</td>
<td>CAT 3412 TA</td>
</tr>
<tr>
<td>Secondary Generators (2):</td>
<td>1,290 kw</td>
</tr>
<tr>
<td>Driven by:</td>
<td>Shafts</td>
</tr>
<tr>
<td>Emergency Generators (1):</td>
<td>95 kw</td>
</tr>
<tr>
<td>Driven by:</td>
<td>CAT C4.4</td>
</tr>
<tr>
<td>Bow Thruster (2):</td>
<td>NAKASHIMA TCT-165</td>
</tr>
<tr>
<td>Driven by:</td>
<td>Electric Motor 700 kw</td>
</tr>
<tr>
<td>Total Thrust:</td>
<td>23.5 st 21.3 mt</td>
</tr>
<tr>
<td>Stern Thruster (1):</td>
<td>NAKASHIMA TCT-150</td>
</tr>
<tr>
<td>Driven by:</td>
<td>Electric Motor 575kw</td>
</tr>
<tr>
<td>Total Thrust:</td>
<td>9.6 st 8.7 mt</td>
</tr>
</tbody>
</table>

### Performance

**Fuel Consumption vs Speed**

- **Maximum:** 40 m³/day (440 gph) @ 15 knots
- **Cruising:** 33 m³/day (360 gph) @ 14 knots
- **Economical:** 21 m³/day (230 gph) @ 12 knots
- **Standby:** 1.5 m³/day (17 gph) @ 0 knots

**Range @ 12 Knots:** 14,800 nm

**Bollard Pull:** 130 st 120 mt

**Transfer Rates**

- **Fuel Oil:** 530 gpm @ 270 ft 120 m³/h @ 82 m
- **Fresh Water:** 530 gpm @ 260 ft 120 m³/h @ 80 m
- **Drill/Ballast Water:** 530 gpm @ 260 ft 120 m³/h @ 80 m
- **Bulk:** 33.3 cfm @ 190 ft 56.6 m³/h @ 57 m
- **Liquid Mud:** 330 gpm @ 250 ft 75 m³/h @ 75 m

### Deck, Equip.

#### Winch:
- Model: MacGregor Plimsoll
- Line Pull: 200 mt
- Tow Wire: 1000 m of 65 mm
- Work Wire: 1000 m of 65 mm
- Pennant Reels (1): 1000 m of 65 mm
- Chain Lockers (2): 1,290 m of 70 mm chain
- Chain Handler: 2 x 70mm Chain
- Stern Roller: Plimsoll 2m x 5m; 300 mt SWL

#### Tow/Anchor Handling

- Anchors (2): AC 14, 1575kg
- Anchor Chain: 440 m of 40 mm chain per side
- Crane: 5 t @ 11.9 m
- Capstans (2): 10 t PC-HVC-10 (15M/MIN)
- Tugger (2): 10 t Plimsoll PC-HUW 10DR-400 (24M/MIN)

#### Radar(s):
- 2

#### Depth Sounder:
- 1

#### Gyro Compass:
- 3

#### Doppler Log:
- 1

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

#### Sat Com:
- 1xINMARSAT-C

#### No of Berths:
- 35

#### 1-man cabins: 7
#### 2-man cabins: 14

#### Certified to Carry:
- 35

#### Galley seating:
- 28

#### Hospital:
- Yes

#### Firefighting:
- FIFI-1

#### Dynamic Positioning:
- Kongsberg K-POSDP-21

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

#### Water Maker:
- 5T/day

#### Rescue Boat:
- SOLAS Approved FRC

#### Deck Cargo:
- 980 lt 1,000 t

#### Fuel Oil:
- 316,000 gal 1,200 m³

#### Potable Water:
- 43,900 gal 170 m³

#### Fresh Water:
- 107,000 gal 400 m³

#### Drill/Ballast Water:
- 175,000 gal 660 m³

#### Bulk Tanks (4 tanks):
- 8,000 ft³ 230 m³

#### Liquid Mud (22 lbs/gal):
- 1,300 bbl 210 m³

#### Fire Fighting Foam:
- 2,210 gal 8.4 m³

### Nav/Comms Equip.

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- AC 14, 1575kg

#### Anchor Chain:
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### Special Equip. Accommodations

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- Fuel Oil: 316,000 gal 1,200 m³
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- Bulk Tanks (4 tanks): 8,000 ft³ 230 m³
- Liquid Mud (22 lbs/gal): 1,300 bbl 210 m³
- Fire Fighting Foam: 2,210 gal 8.4 m³

### Registration

- Flag: VANUATU
- IMO No.: 9412919
- Year Built: 2009
- Builder: NIIGATA SHIPB & REPAIR
- Call Sign: YJQQ6
- Tonnage (ITC): 2465 GT 781 NT

**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.