**PROPSLUTION SYSTEM**

<table>
<thead>
<tr>
<th>Main engines</th>
<th>2x Caterpillar 3516C HD TA/D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total power</td>
<td>5050 kW (6772 bhp) at 1800 rpm</td>
</tr>
<tr>
<td>Thrusters</td>
<td>2x Rolls Royce US 255 P30 FP</td>
</tr>
<tr>
<td>Propeller</td>
<td>3000 mm</td>
</tr>
<tr>
<td>Forced ventilation</td>
<td>400,000/80,000 m³/h</td>
</tr>
<tr>
<td>Exhaust emissions</td>
<td>IMO Tier III compliant</td>
</tr>
</tbody>
</table>

**GENERAL**

- Basic functions: Push-pull, escorting, towing, Ø fire-fighting and Ø oil pollution control operations
- Classification: Bureau Veritas
- Bilge water: 6.5 m
- Dirty lubrication oil: 2.3 m
- Sewage: 3.0 m
- Fresh water: 15.4 m
- Fuel oil: 12.8 m
- Tanks capacities: Gross tonnage = 450 t
- Draught: 5.90 m
- Length overall: 12.3 m
- Beam overall: 5.35 m
- Depth at sides: 800 t

**DIMENSIONS**

| Length overall | 32.70 m |
| Beam overall   | 12.82 m |
| Depth at sides | 5.35 m |
| Draught aft    | 5.90 m |
| Displacement   | 800 t |
| Gross tonnage  | 450 t |

**PERFORMANCES**

- Bollard pull ahead: 83.1 t
- Bollard pull astern: 78.1 t
- Speed: 13.5 kn

**AUXILIARY EQUIPMENT**

- Generator sets: 2x Caterpillar C4.4 TA, 230/400 V, 187 kVA, 50 Hz
- General service pumps: 2x Azcue CA40-1B
- Bilge pump: 2x Azcue CA50-3A 20 m³/h each
- Fuel pump: Azcue CA60-1B
- Cooling system: Box cooling + anti-growth system
- Fresh water pressure set: Azcue AO-18/10
- Fuel oil purifier: 2x CSC PTU 27/81 MZ-21PZ, 920 l/h each
- Sewage treatment plant: Tecnicomar ECOmar 20
- Hydraulic system:
  - Ø Oil pollution control
  - Ø Fifi monitor
  - Ø Rendering/recovery
- Sewage treatment plant: Tecnicomar ECOmar 20
- Dispersant pumpset with 2 spraybooms
- Main engine driven pump: 1200 m³/h or 2400 m³/h (FIFI 1) Ø with water spray
- Main towing winch: 1x 1200 m³/h or 2x 1200 m³/h, water/foam

**DECK LAYOUT OUT**

- Anchor: 2x 430 kg Pool (High Holding Power)
- Anchor winches: 2x Electric 10 m/min
- Towing winch: Hydraulically driven two-speed double drum, low speed pull 27 ton up to 30 m/min, high speed pull 27 ton up to 49 m/min, brake 200 ton
- Rendering/recovery winch: Pull/low speed 30 ton up to 27 m/min on 2nd layer, pull/high speed 30 ton up to 44 m/min on 2nd layer, rendering 112 ton up to 82 m/min on 2nd layer
- Capstan fore:
  - Electrically driven, 5 ton at 15 m/min
  - Electrically driven, 5 ton at 15 m/min
  - Heila HLM 10-30 or Heila HLM 20-30S with winch
  - SWL 100 ton
  - Hydraulically driven single drum two-speed winch with spooling device and warping head, high pull/low speed 31 ton up to 12 m/min, slack rope speed up to 39 m/min, 200 ton brake
  - Ø Fifi monitor
- Fendering:
  - Ø-Ø fender at sides, cylindrical fender at transom corners, cylindrical bow fender with water spray

**ACCOMMODATION**

For 10 persons, insulated and finished with durable modern linings, acoustic ceiling in the wheelhouse, floating floors and air-conditioned. With 6 cabins, galley, mess/dayroom, switchboard room, dry store and sanitary facilities.

**NAUTICAL AND COMMUNICATIONS EQUIPMENT**

- Searchlights: 1x Norselight 2000 W
- Radar system: 1x Furuno FAR-1518-8B + 1x Furuno FAR-1518-BB
- Compass: Cessna's & Plat's Reflecta 11
- Satellite compass/GPS: Simrad GNSS01
- Gyro compass: Anschatel Standard 22 compact
- Autopilot: Simrad AP-70
- Echosounder: Furuno FE-800
- VHF: 2x Sailor 6202 + Ø 1x Sailor 6215
- VHF hand-held: 2x Jotron Tron TR-20
- Navtex: Furuno NX-700B
- AIS: Furuno FA-170
- SSB: Furuno FS-1575
- LRIT: Furuno Felcomb 19
- Inmarsat: 2x Furuno Felcomb 18
- EPIRB: Jotron Tron-605
- Sart: Jotron Tron Sart 20
- Anemometer: Gill Instruments GMX500

Ø = Optional equipment
AZIMUTH STERN DRIVE TUG 3212
STANDARD