Wellservicer

Versatile multi-role vessel
The Wellservicer is a versatile multi-role vessel that combines heavy lift capability with either diver or diverless intervention support.

**Capabilities**

The Wellservicer’s excellent Dynamic Positioning (DP), station keeping and working weather limits provide a stable platform capable of supporting Vertical Lay System (VLS), carousel or reel mounted equipment. Its innovative design and high degree of sophistication provide a cost-effective alternative for a wide range of specialist services, including hyperbaric welding, flexible flow-line, riser and umbilical laying, installation of structures, piling and mothership support for trenching and diverless subsea equipment.

**Seakeeping characteristics**

The vessel’s outstanding success in the subsea construction market is attributable to the innovative monohull design with its passive and active stabilising systems, which provide a highly stable base for subsea operations. These active damping and anti-heeling systems limit the vessel’s motion to only 1 to 2 degrees of roll in a Beaufort 8 seastate.

**Cranage**

The vessel’s heavy lift crane is of a unique design incorporating two independent cranes mounted on a single revolving pedestal. A sophisticated computerised control system enables the two cranes to be operated independently or in tandem.

The cranes have a dynamic rating of 1.3 and a total lifting capacity of 130 Te at a radius of 26 m, when operated in tandem. They are equipped with a sophisticated active heave compensation system where the load is monitored and controlled by independent computers.

**Remotely operated vehicles (ROVs)**

The vessel is fitted with a Workclass MRV system equipped with state-of-the-art manipulators, sensors and optional tooling packages. It is launched over the vessel’s starboard side utilising a LARS system located on the starboard mezzanine deck.
This MRV system is operated from Dive Control, which is the hub of all vessel subsea operations. The Wellservicer also has a latest generation Observation Class ROV system located on the port mezzanine deck. This “eyeball” system is equipped with state-of-the-art cameras and sensors.

**Diving system**

Designed with safety and flexibility in mind, the Wellservicer is fitted with a saturation diving complex rated to 450 msw, though currently certified to 300 msw, and capable of supporting up to 18 divers under pressure. The system comprises three 6-man twin-lock decompression chambers (DDC) and two 3-man diving bells. Space is available to fit an additional 6-man DDC as well as a second self-propelled hyperbaric lifeboat, should the need arise. The bells can be operated simultaneously or independently and the system allows divers to be maintained at different working and decompression depths at the same time. Divers under pressure can be evacuated by means of a hyperbaric lifeboat positioned on the starboard side of the vessel. Facilities exist for air diving stations to be installed as required on the port side.

**Dynamic positioning system**

There is a fully redundant Kongsberg SDP 21 system with six independent reference systems where available. The vessel is able to keep position in the worst weather conditions and has a fully redundant power system. The vessel is also fitted with a Kongsberg SDP 11 back-up system - (NMD 3 compliance)

**Environmental Regulatory Number**

99/99/99

**Lifesaving appliances**

<table>
<thead>
<tr>
<th>Lifeboats</th>
<th>SPHL</th>
<th>1 x 18 divers</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td></td>
<td>+ 3 x crew</td>
</tr>
<tr>
<td>-</td>
<td></td>
<td>Life rafts</td>
</tr>
<tr>
<td>-</td>
<td>12 x 25 person</td>
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</tbody>
</table>

**Classification**

111SF, HELDK, E0, DYNPOS-AUTRO

**Year built/builder**

1989 by North East Shipbuilders Ltd, Sunderland, UK

**Power plant**

- 6 x Wartsila W200 series (2,100 kW)
- Total power production 12,600 kW

**Diving system**

- Depth rating 450 msw
- Current certification 300 msw
- No. in sat. 18
- No. of bells 2
- Bell volume 6 m³ each
- System volume 114 m³
- Gas storage 21,000 m³
- at 200 bar
- Reclalm system fitted to both chamber and bells

**Flag**

British

**Call sign**

MGGL8

**Accommodation**

139 people in 76 cabins

**Deck Space**

- Above main deck 863 m²
- Below main deck 250 m²
- Working moonpool 7 m x 5 m

**4-point mooring available**

- 2 forward anchors fitted
- 2 aft anchors available on request

**Deck load**

5 Te/m²

Max overall 1,140 Te at 1 m above deck

**Service air**

3 x Atlas Copco 23.6 m³/min each, Pressure 7.0 bar

**DP System**

- Kongsberg SDP 21
- Kongsberg SDP 11 back-up system - (NMD 3 compliance)

**Reference Systems**

- 2 x DGNSS
- Simrad HiPAP 500 & 350
- 2 x Lightweight taut wires
- 1 x fan beam

**Helideck**

S92 (strengthened for Chinook)

**Lifesaving appliances**

<table>
<thead>
<tr>
<th>Lifeboats</th>
<th>TEMPSC</th>
<th>4 x 72 person</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td></td>
<td>1 x 18 divers</td>
</tr>
<tr>
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**Classifications**

1A1 Supply Vessel, SF, CRANE, DSV, E0, HELDK, E0, DYNPOS-AUTRO

**Vessel speed**

Economical 10.5 knots

Maximum 12.5 knots

**Environmental Regulatory Number**

99/99/99

**Propulsion Forward**

- 3 x KalMeWa Tunnel thrusters 1,342 kW, 18 Te thrust each
- 3 x KalMeWa Azimuth thrusters 1,720 kW, 37 Te thrust each

**Bollard pull**

110 Te

**Endurance**

- Max period between portcalls 67 days (typical without refuelling)
- FW making capacity 50 Te/24 hrs
- Fuel consumption (typical)
  - In port cons. 5 m³/24 hrs
  - Transit 30-50 m³/day
  - DP 20 m³/day

**Vessel speed**

- Economical 10.5 knots
- Maximum 12.5 knots

**Helideck**

S92 (strengthened for Chinook)

**Accommodation**

139 people in 76 cabins
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