BOKA POLARIS
MULTIROLE DIVING SUPPORT VESSEL & OFFSHORE CONSTRUCTION VESSEL

CONSTRUCTION / CLASSIFICATION

Description: Diving Support Vessel, compliance with MODU Code and MOU Regulations
Built: May 1999
Classification: Lloyd's Register | 100A1, Diving Support Vessel, Helideck WDL (5.0 t/m³ aft of frame, 50) LMC, UMS, DP (AAA), Ship Right (MPMS)
IMO: 9187526
Call sign (flag): M Y K R 6 (British)
GMDSS: Area A3
Official No.: 901941
MMSI: 232585000
Selcall: 47425

FEATURES

Saturation & air diving support
Structure installation
Flexible flowline & umbilical installation
Inspection, repair & maintenance
Well abandonment
Riser installation
Spoolpiece installation

MAIN DATA

Gross tonnage: 8,234 GT
Net tonnage: 2,471 NT
Deadweight (summer): about 5,500 t
Length overall: 113.57 m
Length BP: 107.35 m
Beam: 22.00 m
Depth: 9.50 m
Draught (summer): 6.75 m

PERFORMANCE / APPROXIMATE FUEL CONSUMPTION

Service speed: 11.00 kn
Transit speed: 18.5 m³/24 h
DP operations: 13.1 m³/24 h
Harbour: 6.8 m³/24 h

CARGO AREAS

Working deck dims.: 35 m x 21 m (abt.)
Working deck area: 700 m² (abt.)
Deck strength: 5 t/m²
Deck load: 1,500 t (abt.)
One carousel installed below aft deck
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TANK CAPACITIES

<table>
<thead>
<tr>
<th>Component</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel oil</td>
<td>1,327 m³ (abt.)</td>
</tr>
<tr>
<td>Potable water</td>
<td>464 m³ (abt.)</td>
</tr>
<tr>
<td>Ballast water</td>
<td>1,900 m³ (abt.)</td>
</tr>
<tr>
<td>Lubricating oil</td>
<td>16 m³</td>
</tr>
<tr>
<td>Stability tanks</td>
<td>1,118 m³</td>
</tr>
</tbody>
</table>

STABILISATION

- Intering active roll reduction system (1 x tank)

ACCOMMODATION

- Wheelhouse and accommodation fully air conditioned.
- Total berths: 104
  - Single: 20
  - Double: 42
  - Hospital: 1 Berth
  - Gymnasium: Yes
- Charterer’s spaces including suites, operations areas and survey/work type areas.

HELIDECK

- Load capability: Cleaned for EC225 (11.0 t)
- D value: 19.5 m
- Heli-reception and full emergency equipment.

ENGINE POWER & PROPULSION

DIESEL ELECTRIC INSTALLATION COMPRISING OF:

- Main engines: 4 x Wärtsilä 9L26 diesel engines each driving an alternator and each producing 2,680 kW at 660 V 3Ph. 60 Hz. (Total power 10,720 kW)
- Harbour set: 1 x 750 kW
- Emergency set: 1 x 150 kW unit located well above the freeboard deck and clear of regulation side damage areas

THRUSTERS

- Stern thrusters: 2 x 2,200 kW, fully azimuthing Kaplan nozzle fixed pitch propeller units driven by infinitely variablespeed frequency controlled motors
- Bow thrusters: 3 x 1,335 kW Tunnel thrusters of variable pitch type set very low for maximum efficiency

REDUNDANCY FEATURES

- Main machinery divided into two separate spaces each capable of independent operation in event of fire/flooding etc. and located clear of assumed side damage.
- Switchboards in two compartments also clear of regulation side damage area. Each main propulsion thruster and each tunnel thruster is located in its own separate watertight compartment.
- All power/control cabling and pipework lead independently to relevant Thruster/motor/control equipit. etc and widely separated for maximum redundancy. Main machinery control room in engine room space with secondary control from wheelhouse.
- A third emergency control centre is located well above the freeboard deck, and inboard of regulation damage areas and surrounded by fire-proof boundaries.

DYNAMIC POSITIONING SYSTEMS

- DP system comprises two main control systems within the wheelhouse with further independent control computer position within the emergency control centre. Independent references/sensors lead to this station by separate cabling for maximum redundancy.
- DP system: Simrad SDP 21 (3 x Op. stations)
- References: 3 x DGPS, Fanbeam, 2 x Taut wire, 2 x HIPAP 502, Three gyro compasses, Three wind sensors, Three motion reference units
- Compliance standards: DP (AAA), IMO DP-equipment class 3

DIVE SYSTEM

- Capacity: 18 man system
- Depth rating: 300 m
- No of dive bells: 2 x bells (6 m³)
- Mixed gas storage: 20,400 m³ onboard with gas reclaim
- SPHL evacuation chamber: 1 x 18 man (11.75 m³)
- Air diving: 2 x Air dive stations and 1 x DDC
- Man living chambers: 2 x 6 person living chambers (18.2 m³)
- Living chamber: 1 x 4 person living chamber (14.8 m³)
- De-compression chamber: 1 x 6 person living chamber (16.6 m³)
**MOONPOOLS**

Two moonpools each abt. 4.68 m x 4.68 m for diving operations.

One optional moonpool (stern) abt. 6.24 m x 6.24 m.

**DECK MACHINERY**

Offshore cranes  
1 x 150 mt SWL active heave compensated @ 12.5m radius (250 mt SWL for port use @ 13.0 m radius)  
1 x 10 mt at 25 m Hydralift crane  
1 x 10 mt at 10 m / 1 mt at 22 m Norlift crane

Stern and aft main deck stiffened for installation of A-Frame