# Toisa Proteus

## DP3 Multi-Purpose Offshore Construction Vessel

### OUTLINE SPECIFICATION / DATA SHEET

### GENERAL

| | |
|---|---|
| Built / Year | Van Der Giessen / 2002 |
| Flag | Liberian |
| Class | Det Norske Veritas<br>+1A1 , EO, SF, Dynpos AUTRO, Offshore Support Vessel<br>Compliance with MODU Code and MOU Regulations |
| Gross tonnage | 8,402 |
| Net tonnage | 2,521 |
| Deadweight (Summer) | 8,710 tonnes |

Safety equipment fitted for 167 persons total

### DIMENSIONS

| | |
|---|---|
| Length overall | 131.70m |
| Breadth mld. | 22.00 m |
| Draught (Summer) | 6.25 m |

### PERFORMANCE

| | |
|---|---|
| Service Speed | abt 10-12 knots |

### TANK CAPACITIES

| | Approx. at 100% |
|---|---|
| Fuel Oil | 1,155m$^3$ (abt.) |
| Potable water | 563m$^3$ (abt.) |
| Potable water makers | 2 x 20 tonnes / day |

### CARGO CAPACITIES

**Main Deck**

| | |
|---|---|
| Working deck dims. | 92 m x 21.0 m (abt.) |
| Working deck area | 1,900m2 (abt.) |
| Deck strength | 5 tonnes / m² |
| Deck load | 4,500mt (abt.) |

**Mezzanine Decks**

Fwd Mezz Deck 195m² suitable for 2 x ROV's
Port Aft Mezz Deck for Charterers 2 x 20' ISO Containers

**Holds**

6 x Chain Lockers currently fitted in Hold No. 2
Extensive stores area currently fitted in Hold No. 4
Holds may be reconfigured for a particular application.
Maximum under deck length is about 62m long, 18.4m wide with a maximum clear height of about 8.0m

### MOONPOOL

One Moonpool trunk 3.90m x 3.90m under Fwd Mez Deck
Moonpool trunk may be expanded to 6.24m x 6.24m to suit other operations incl. Flex Lay and ROV Ops.

### MAIN MACHINERY

Diesel electric installation comprising - four off Wärtsilä 9L26 diesel engines each driving an alternator and each producing 2,680kW at 660v 3Ph.60Hz (Total Power 10,720kW)

Harbour Set producing 750kW
Emergency Set of 150kW

### THRUSTERS

Stern: two off 3000Kw fully azimuthing thrusters with fixed pitch propellers driven by variable speed motors.
Bow: three off 1,335Kw variable pitch tunnel thrusters

### REDUNDANCY FEATURES

Main Machinery installed in two separate engine rooms. Two switchboards each in separate compartments. Each main propulsion thruster and each tunnel thruster is located in a separate watertight compartment. All power, control cabling and pipework lead independently to the relevant thruster / motor / control equipment etc. and is separated for maximum redundancy.

The vessel may be commanded from an Emergency Control Centre located one deck below the wheelhouse and protected by fire resistant boundaries.

### DYNAMIC POSITIONING 3

DP3 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 via separate cabling for maximum redundancy.

| | |
|---|---|
| DP / Joystick Control | IMO Class 3 DP System – Kongsberg K-Pos DP-21 |
| DP references | DGPS<br>Fan beam<br>Taut Wire<br>Two HiPAP's<br>Three Gyro Compasses<br>Three Wind sensors<br>Three Motion Reference Units |
| Compliance Standards | DNV Dynpos AUTRO<br>IMO DP-Equipment Class 3 |

### STABILISATION

Intering Active Roll Reduction System

**Sealion Shipping Limited**
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### DECK MACHINERY

**Main Offshore Crane Starboard Side**
One Offshore crane rated at 400mt SWL fitted with an Active Heave Compensation system.
Currently suitable for operating in 2,240m water depth, single fall with a hook load of about 110mt (subject to wire length).
Theoretical maximum working depth approximately 3,000m.

**One General Purpose Crane Port Side Aft**
SWL: 20t (in Air)
Outreach: 20m
Working Depth: Up to 600m (Depending on Wire Length)

**One Stores Crane Starboard Side Forward**
SWL: 3t (in Air)
Outreach: 17m
Working Depth: Up to 100m (Depending on Wire Length)
Stern and aft Main Deck stiffened for installation of A-Frame.

### HELIDECK

D value of 19.5m and max gross weight of 9.3mt
Heli-reception room and full emergency equipment

### ACCOMMODATION

Wheelhouse and accommodation fully air conditioned for 173 persons (excl. Hospital) in 1, 2, 3 & 4 Berth en-suite accommodation.
Hospital
Gymnasium
Charterer's spaces include suites, operations room and survey areas

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