OVERVIEW

Semi-Submersible Crane Vessel OOS Gretha is a multifunctional asset with the ability to offer various services such as: Accommodation, Heavy Lifting, Installation, Modification, Decommissioning, Renewables and Subsea Installation & Removal.

With proven high up-time and large crane capacity of 3,600 t in tandem, this unit offers many opportunities to the client. In combination with offering the facilities of the Floatel, OOS can deliver turn-key solutions to meet your business needs.

SEMI-SUBMERSIBLE SPECIFICATIONS

- Hotel capacity is 618 persons on board
- DP-3 with the highest DP standards
- Construction/crane vessel 2 x 1,800 t
- Platform removal and installation
- Excellent motion characteristics
- Low running costs of around 25% lower fuel consumption in DP and transit
- High transit speed of 11 kn
**GENERAL**

**Classification**: ABS

**Notation**:  A1 Column- Stabilized Unit, Crane Service. Construction & Maintenance Service, UWILD Accommodation Service AMS ACCU DPS3 Circle M

**IMO**: 9650963

**PRINCIPAL DIMENSIONS**

- **Overall**
  - LOA: 137.75 m
  - Beam: 81.00 m
  - Height (BL to main deck): 39.00 m

- **Deck Box**
  - Height: 81.00 m
  - Width: 81.00 m
  - Depth: 9.00 m

- **Draft**
  - Max Operational Draft: 26.40 m on the marks / Including thrusters 31.21 m
  - Operational Draft: 20.00 m on the marks / Including thrusters 24.81 m
  - Survival Draft: 17.00 m on the marks / Including thrusters 21.81 m
  - Transit Draft: 11.28 m on the marks / Including thrusters 16.09 m
  - Air Draft: 83.28 m @ Operational / 92 m @ Transit / 86.20 m @ Survival

- **Light Ship Weight**
  - Light Ship Weight (Maximum): 33.600 mt

- **Displacement**
  - Displacement (approx at 20 m draft): 55.700 mt

- **Transit Speed**
  - Transit Speed (at draft of 11.28 m): 8 kn

**DESIGN ENVIRONMENT**

- **Survival condition**: Hs=12 m
- **Hotel Operation condition**: Hs=6.0 m
- **Sea water temperature**: 0 °C to 32 °C
- **Outside air temperature**: -10 °C to 45 °C
- **Structure design temperature**: -10 °C
- **Fatigue life**: 20 years

**OPERATION AREA**

- West African
- Gulf of Mexico
- UK North Sea

**VARIABLE DECK LOADS**

- **Hotel Variable**: 4.444 mt @ 20 m Operational Draft
- **Crane Variable**: 7.070 mt @ 26.4 m Operational Draft
- **Survival Variable**: 4.429 mt @ 17 m Operational Draft
- **Transit Variable**: 3.570 mt @ 11.5 m Operational Draft

**BALLAST SYSTEM**

- **Ballast pump**: 4 x 350 m³/hr & 4 x 200 m³/hr
- **Air compressor**: 4 x 8.390 Nm³/hr, Max Pressure 2.6 bar

**FIRE FIGHTING & SAFETY**

- **Fire Fighting**: 2 x Centrifugal type, Pressure min. 14 bar
- **Life Boats**: 12 x 104 persons fire proof life boats complete with davits
- **Rescue Boat**: 1x motorized Rescue Boat (9 man) with launching davit
- **Life Rafts**: 25 x 25 persons life rafts

**HELIDECK**

- **Helideck notation**: D-value 22.8 / 't' value 14.6 (Sikorsky S-92 and S-61N or similar)
- **Helideck structure**: Steel

**ACCOMMODATION**

- **POB**: 618
- **Single Cabins**: 28
- **Double Cabins**: 295
- **Sym**: 2
- **Client Offices**: 5

**MAIN AND AUXILIARY MACHINERY**

- **Main Generator Set**: 8 x 3.860 kW, 6600 V, 60 Hz, 3ph
- **Emergency Generator**: 6 x 3.800 kW fully Azimuth Thruster
- **Fuel Oil Transfer Pump**: 4 x Screw pump, 75 m³/hr, 8.0 bar
- **Fuel Oil Purifiers**: 4 x Capacity 5.000 l/h
- **Start Air Compressor**: 4 x 50 m³/hr @ 30 bar
- **Service Compressor**: 2 x screw type 1.500 m³/hr @ 8 bar
- **Sewage Treatment Unit**: 2 x 310 persons
- **Fork Lift**: 1 x Linde E30S, 3 t

**MAIN CRANE**

- **Main Deck Crane**: 2 x 1.800 t @ 27 m, slewing Huisman
- **Tandem Lifting**: Lifting 3.600 t

**DECK MACHINERY**

- **Deck Crane**: 2 x Cranes 40 t @ 20 m
- **Gangway**: 1 x Telescopic hydraulic gangway with base of approx. 36.5 (6m) length, Marine Aluminium

**ANCHOR SYSTEM**

- **Four (4) 25 ton anchors x Flipper Delta 25T anchor, One (1) Flipper Delta 25 t spare anchor.**
- **Four (4) mooring winches design, electrically-powered, single drum mooring winches, Break holding force (1st layer) 4000 kn, pull (1st layer) 1800 kn at 10 m/min, complete with 2.000 steel rope of 3” diameter.**

**TOWING, MOORING & LASHING**

- **8 set x double bollards and Panama Chocks / 4 x SMIT Towing Brackets with SWL 2 x 250 mt each associated with Panama Chocks / 8 sets x 10 t air winches / Two (2x) x double drum Barge Mooring Constant tension winches with fairleads.**
HOLDING OOS INTERNATIONAL GROUP B.V.

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