Topaz Master

85T BP - 64.8 M - 5700 kW - DP2 - AHTS

Vessel Specifications

TOPAZ MASTER



Diesel-electric propulsion Lower fuel consumption, reduced environmental footprint 50-man accommodation - MLC compliant 420m² of clear deck space

Vessel Specifications

General

Marshall Islands

Port of registry

ABS, + a1 Offshore Support Vessel (AH, TOW, Supply-HNLS), FFV-1 (Fire Fighting Class 1), Class

+ AMS, E, +DPS-2, Offshore Support / Supply & Towing Service Vessel

Year built / builder 2017. TBA IMO number TBA

Dimensions

Length overall 64.80 m Length WL 63.66 m Beam (moulded) 16.00 m Depth (moulded) 6.80 m Design draft 5.10 m Max draft (moulded)

5.40 m (approx)

Deadweight 2000 t

Deck area 420 m2 (approx)

Deck cargo 650 t Deck loading 7 t/m2 GRT 2332 t NRT 699 t

Machinery

Main generator set 4 x 1425 kWe, 690V/3P/60Hz - Diesel Engine Driven

2 x Diesel Engine with front PTO

1 x 200 kWe, 440V/3P/60Hz -Radiator Air Cooled, Model: Cummins QSM11-DM Emergency generator Bow tunnel thruster 2 x Bow CPP Tunnel thrusters, Rolls-Royce TT1650 DPN CP c/w electric motor driven 2 x Stern CPP Azimuth thruster, Electric motor driven with input power @2400kW Stern Thruster

Propulsion system Stern CPP Azimuth thruster

Deck equipment

Deck crane 1 x unit Telescopic Boom Crane, electro-hydraulic, pedestal

Mounted;

Working Radius 15 m - 5mt SWL Working Radius 10 m - 7.5mt SWL Minimum Working Radius 3 m

Anchor windlass / Mooring winch 1 x Electro-Hydraulic Windlass with 2 x Gypsy,

Mooring Wire Drum, 2 x warping head

Gypsy Rated Speed: 11.4t @ 0-11 m/min (at Max. Duty) Drum Rated Speed: 12.3t @ approx. 0-11m/min (Max.)

Wire Size: 247m of 48mm dia. wire

2 x Chain Stopper Roller type NP3 36-44 with lashing screw

Shark jaw 1 set hydraulically retractable (triplex), SWL 200 T

Towing pins 1 unit angular type, 115 T SWL

Approx. 1.8m I.D. / 2.0m O.D. x 4.0m length with SWL 250mt Stern roller

Capstan 2 x 10T @ 0~12 m/min

Anchor handling / Towing winch 1 x Electro-Hydraulic high pressure of Waterfall type (Double drum) local and remote control

Drum Capacity 1250 M x Ø60mm wire each drum Drum Pull (1st layer) 150t x 0~6.0 m/min (1st)

93t x 0~0~10 m/min (Mid) 67t x 0~14 m/min (Outer)

Drum Brake Holding 250t (static, 1st layer)

Dynamic Breaking 28 to 188 ton @56m/min (1st layer)

Tugger winch 2 x 10T Hydraulic Winch

Storage reel 1 x 7T at 0~19 m/min, 3300m of 60mm dia. wire

Performance

Trial speed @ 100% MCR 13 knots Bollard pull 90 t (approx)

Endurance 25 days at about 11.0 knots cruising speed

Tank Capacities

Fuel oil 640 m³ Fresh water 397 m³ D.W./ballast 640 m³ Liquid mud/Brine/RO 411 m³

172 m³ (4 tanks) Dry bulk

Base oil 123 m³ 13 m³ Foam Dispersant 13 m³

Vessel Specifications

Transfer Rates

Communication and navigation equipment

GMDSS Yes, Area A1+A2+A3

Navtex Yes GPS Yes SART Yes, 2 nos. **EPRIB** Yes Walki - talkie Echo sounder Yes Radars Yes Magnetic Compass Yes AIS Yes SSAS Yes Speed log Yes Gyro compass Yes, 3 nos. Anemometer Yes PA / Intercom Yes Autopilot Yes Sound power phones Yes Navigational lights Yes BNWAS Yes

DP system Kongsberg's DP-2 System

Fire fighting equipment

Fixed fire fighting system FIFI Class 1 with Water Spray

External FiFi pump 2 x 1700 m³ per hr, Driven by Main Generator Engine front PTO

Fire monitors (Water / Foam) 1 x 1200 / 300 m³ per hr

 $\begin{array}{ccc} \text{(Water)} & 1 \text{ x } 1200 \text{ m}^3 \text{ per hr} \\ \text{Throw length / Height} & 140 \text{ m / } 50 \text{ m} \\ \end{array}$

Fixed fire protection system Fixed CO2 system and water mist system for Engine

Fixed fire alarm & detection system as per ABS / Statutory rules Dispersant system 6m boom c/w spray nozzles

Dynamic Positioning equipment

Safety equipment

Rescue boat 6 Persons, Speed 20 knots

Davit A-Frame type

Accommodation

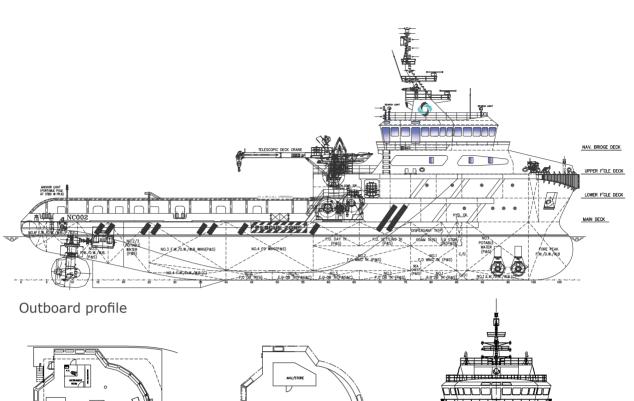
 6×1 man cabin = 6 men 8×2 men cabin = 16 men 7×4 men cabin = 28 men Total 50 men

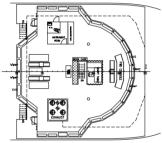
 $1 \times Hospital = 1 man$

Fully air-conditioned

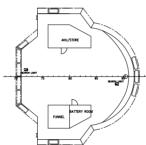
Last revision July 2017

GA Specifications

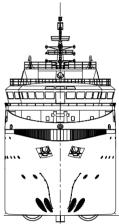




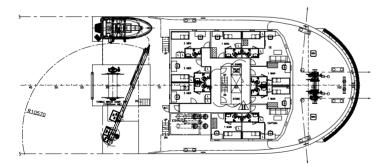
Nav bridge deck



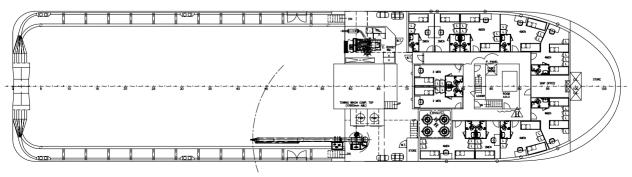
Wheelhouse top



Front view

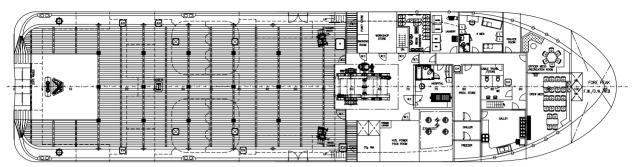


Upper forecastle deck

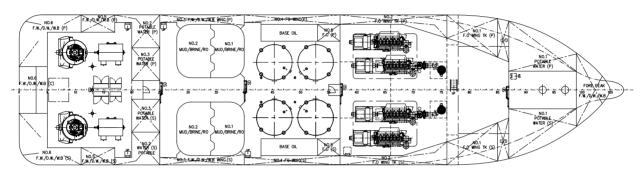


Lower forescastle deck

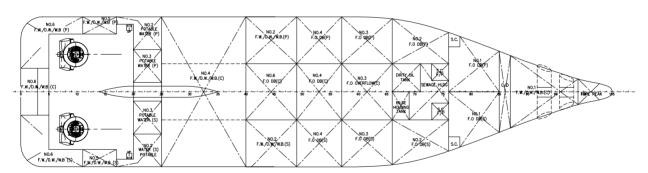
GA Specifications



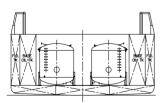
Main deck



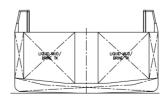
Below main deck



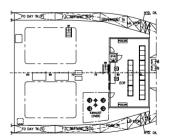
Bottom / Tank top



Section at cement tank



Section at mud / brine tank



Tween deck
In E/R+Cement Comp

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