Topaz Endurance

83 M – DP2 Platform Supply Vessel

Vessel Specifications

Diesel-electric propulsion
Low fuel consumption, reduced environmental footprint
60-man accommodation - MLC compliant
850m² of clear deck space - large cargo capacity

Vessel Specifications

General

Flag	Singapore
Port of registry	Singapore
Class	DNV +1A1, Offshore Service Vessel, Supply, SF, EO, DYNPOS-AUTR(DP2), NAUT-OSV(A), CLEAN DESIGN, COMF-V(3), COMF-C(3), LFL*, DK(+), HL(+), OILREC, BIS, SPS, Fire Fighter I
Year built / builder	2015, Britoil Offshore Indonesia
IMO number	9678769

Dimensions

Length overall	83.40 m
Breadth (moulded)	18.00 m
Design draft	6.7 m
Depth main deck	8.00 m
Clear deck area	850 m2
Deadweight (design draught)	3929 mt
Gross tonnage	3880 mt
Net tonnage	1272 mt

Machinery

Generators	2 x CAT C280-6 main generators, maximum continuous rating approx. 1,925 ekW at 1,000 rpm, 3 x 690 V / 50 Hz 2 x CAT C32 main generators, maximum continuous rating approx. 800 ekW at 1500 rpm, 3 x 690 V / 50 Hz
Bow tunnel thruster	CPP type, propeller diameter approx. 1,850 mm, motor output approx. 800 kW at 1500 rpm
Bow retractable thruster	Azimuthing thruster, FPP type, propeller diameter approx. 1,800 mm, motor output approx. 880 kW at 0-1,800 rpm
Main propulsion	2 x electrical propulsion motors, each approx. 1,600 kW output at 1,800 rpm
(Azimuthing thruster)	2 x Frequency converters for electrical propulsion motors

Deck equipment

Provision cranes	1 x SWL 2 t @ 17 m outreach
Tugger Winch	2 x 10 t @ 0-19 m / min & 475 m x 20mm wire
Capstans	2 x Brattvaag Capstans Type LC CX22010

Capacities

Fuel oil	1450 m^3
Fresh water	1050 m^3
Drill water / water ballast	1620 m^3
Mud	1300 m^3
Brine	1300 m^3
Slop	500 m^3
Dry Bulk	250 m^3
Base oil	265 m^3
Recovered oil	655 m^3
Deck strength – Aft of frame 35	10 mt/m^2
- Fwd of frame 35	5 mt/m^2

Transfer rates

Fuel oil	1 x 150 m^3 / hr @ 9 bar
Fresh water	1 x 150 m^3 / hr @ 9 bar
Drill / ballast water	1 x 150 m^3 / hr @ 9 bar
Mud / brine / SLOP / ORO	2 x 75 m^3 / hr @ 18 bar
Base oil	1 x 150 m^3 / hr @ 7.6 bar
Dry bulk	4 x vertical conical bottom 63.5 m^3 each @ 5.6 bar

Performance

Maximum speed	14.5 knots
Economic speed	10 knots
Fuel consumption	14 mt per day @ maximum speed 7.5 mt per day @ economic speed 4 mt per day @ DP mode 1 mt per day @ port 2 mt per day @ standby at sea

Vessel Specifications

Dynamic positioning system

DP system	Kongsberg K-POS DP-21 Class 2
References	2 x Wind Sensors
	3 x MRU
	2 x Differential Position System DPS 110 & IALA beacon receiver and spot beam demodulators
	1 x Cyscan Laser Beam
	1 x Radius 1000 Radar Relative Reference System with ATEX 700x Transponder

Navigation and communication equipment

Radar S-Band	One (1)
Radar X-Band	One (1)
GMDSS	Area 1, 2 & 3
AIS	L-3 AIS 3410 Transceiver
VDR system	1 x L-3 VDR 4350
Autopilot	1 x L-3 Autopilot / Track Pilot
Navtex	1 x NX-700B Receiver
Echo sounder	1 x Furuno FE-700
Speed log	1 x Furuno DS-80
DGPS	2 x Furuno GP150
Gyro compass	3 x Anschutz Gyro Comp Standard 22
Magnetic compass	1 x Anschutz Magnetic Compass
SART	2 x Jotron AIS-SART
ECDIS	2 x L-3 Nascos Platinum Chartpilot, 2 x Conning Display
EPIRB	1 x Jotron Tron 60S 406Hz
Radio	1 x Furuno FS-2575 MF/HF
MF/HF	Radio 250 W
Sound reception	1 x SR8200 Photech
Digital repeater	1 x Furuno RE-33 Digital
UPS	3 x UPS for navigation system
Data transmission	2 x Furuno Felcom 18 Sat-C
	1 x Furuno Felcom 250 Fleet Broadband
	1 x KVH mini-Vsat Trackphone V11 IP-C+Ku-Band
	1 x Iridium Open Port
VHF/UHF	2 x Furuno FM 8900 VHF Dsc
	1 x VHF Slave Handset
	3 x Sailor SP3530 Port VHF
	3 x Motorola GM-380 Fixed UHF
	3 x Furuno FM-4720 radio
	3 x SP3560 Atex Port UHF

Lifesaving equipment

Fast Rescue Boat	1 x 15 persons Harding FRB650, inboard diesel
Davit type	Harding NPDS3500H
Life jackets	65 pieces
Life buoy	8 pieces
Life raft	6 x 30 persons

Fire-figting equipment

Fire pump	1 x FIFI 1 pump
Monitor	2 x water / foam monitor
Fire hose	25 x fire hose with jet / fog nozzle
Fire blanket	1 x Fire blanket
Fire axe	5 x Fire axe

Accommodation

Cabins	Total 60 berths, 6 x 1 berth cabins, 3 x 2 berth cabins, 12 x 4 berth cabins
Offices	2
Conference room	1
Lounge	1
Gym	1
Hospital	1

All cabins fully air conditioned and c/w attatched toilets

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