

Topaz Shaheen

60m - 5220 BHP - DP1 - AHTSV

Vessel Specifications



Vessel Specifications

Registration

Year built/ Builder	2009 / Fujian Crown Ocean Shipping Industry Co.Ltd, China
Flag	Marshall Islands
Class	ABS+A1, Towing vessel, AH, Fire Fighting Vessel Class1, Offshore Support Vessel, Oil Recovery Vessel Class 1, E +AMS, DPS-1
Managers	Topaz Marine

Dimensions

Length Overall	60 m
Breadth Moulded	16 m
Depth Moulded	6 m
Draft Loaded	5.1 m
Deadweight	1736.91 t
Registered Tonnage	GRT 1706 t / NRT 511 t

Machinery

Main Engines	5220 bhp – 2 x 2610 bhp @ 750 rpm Yanmar 6EY26
Propulsion	2 x Berg CPP in Kort Nozzles
Bow Thruster	1 x Schottel STT2, CPP type, Electric drive, 8 tons thrust
Stern Thruster	1 x Schottel STT1, CPP type, Electric drive, 8 tons thrust
Main Generators	2 x Caterpillar, C18, 275 kW each, 415 v, 50 hz, 3 ph
Emergency Generator	1 x Caterpillar C4.4, 93.6kW, 415 v, 50 hz, 3 ph
Sewage Treatment Plant	1 x 40 person capacity, make: SBT-40
Oily Water Separator	1.0 m³ per hr with 15 ppm alarm

DP equipment

DP system	Class 1, Kongsberg (K-POS DP11)
References	2 x DGPS (Fugro Seastar 9200) 1 x FANBEAM (MDL MK 4.2)

Deck Crane

Port side	Fixed boom offshore pedestal mounted crane SWL: 5t, working radius: 8m
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Capacities

Fuel Oil	530 m³
Fresh Water	460 m³
Drill water / Ballast Water	477 m³
Bulk	160 m³
Liquid mud tanks	200 m³
Base oil Brine tanks	185 m³
Oil Recovery Tanks	192.9 m³
Refrigerator / Freezer	20 m³
Foam / Detergent	10.6 m³ each
Deck Cargo Capacity	600 tonnes at 5 mt / m²
Clear Deck Area	380 m² (approx.)

Transfer rates

Fuel oil	1 x 100 m³ per hr @ 75 m head
Fresh Water	1 x 100 m³ per hr @ 75 m head
Liquid Mud	2 x 80 m³ per hr @ 75 m head
Dry Bulk	20.5 m³ per m @ 6 bar air pressure
Recovered Oil Discharge Pump	50 m³ per hr

Vessel Specifications

Performance

Maximum Speed	14 knots
Service Speed	10 knots
Bollard Pull	67 tonnes

Towing / anchor handling / mooring

Anchor handling Towing Winch	1 x Double drum electro-hydraulic, Make: Plimsoll, 200 tonnes line pull and 250 tonnes (static 1st layer) brake holding capacity Towing winch operation monitored by CCTV from the bridge
Upper and lower drum	1000 m (length) x 56 mm (diameter) SWR @ 10 layers
Rated pull (1st layer)	150 tonnes @ 0~6 m / min (1 st speed), 75 tonnes @ 0~12 m / min (2 nd speed), 50 tonnes @ 0~18 m / min (3 rd speed)
Brake holding	250 tonnes static @ 1 st layer
Stern Roller	1.6 m (diameter) x 4.2 m (length) , 375 tons SWL
Shark Jaws	1 x SWL 300 tons, make: Plimsoll, Chain size 70 mm to 95 mm
Towing pins	1 x SWL 300 tons, make: Plimsoll
Tugger Winch	2 x 10 tonnes @ 15 m / min electro-hydraulic make: Plimsoll Brake holding capacity 15 tonnes static at 1 st layer
Anchor Windlass	1 x 6.6 t @ 12 m / electro hydraulic, make Plimsoll
Anchor Chain	2 x 412 m x 36 mm diameter, grade IIIa stud link chain
Anchor	2 x 1590 kg stockless anchor
Capstans	2 x 5 tonnes @ 18 m /min, electro-hydraulic, make: Plimsoll

Oil recovery equipment

Additional Fire Protection	2 x 50 kg trolley mounted dry power extinguishables 2 x portable foam applicators with 8 portable tanks Portable oil recovery equipment Personal protective equipment
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Navigation and communication

Inmarsat C	Furuno Felcom 15
GMDSS	Furuno A1+A2+A3
GMDSS portable radio	3 x ICOM IC-GM1600E
Mini M	Thrane & Thrane
Auto pilot radars	Anschutz Nauto Pilot NP 60, 1 x Furuno MU-201CR, 1 x Furuno RDP-119
GPS Satellite Navigator	1 x Furuno GP-150
ECDIS	2 x PC Maritime
AIS	1 x Furuno FA-150
Navtex Receiver	1 x Furuno-NX 700B
Gyro Compass / Repeaters	1 x Anschutz Standard 22 1X NAVIGAT, MK 1
Magnetic Compass	1 x Saura MR-150
SSB Radio	1 x Furuno FS 2571 C
Echo Sounder	1 x Furuno FE-700
VHF	3 x Furuno FM 8800 S
SART	2 x Mcmurdo S4
Doppler log	1 x Furuno DS-80
Weather Fax	1 x Navtex Furuno-NX 700B
Anemometer	1 x Walker P 305
EPIRB	1 x Mcmurdo E5
SSAS	1 x Furuno Felcom 15

Vessel Specifications

Fire fighting equipment and anti-pollution equipment

FIFI System	FIFI Class 1
FiFi Monitors	2 x 1200 m³ /hr @ 12 bar, Remote joystick controlled from bridge
FiFi Pumps	1 x 1200 m³ / hr - water; 1 x 300 m³/hr - foam
Emergency Fire Pump	1 x 50 m³ / hr, make : DESMI
Fire Extinguishers	1 x CO², 15 x Dry Chemical, 6 x Foam, 10 x Water
Fixed Co2	Covering Engine room, emergency generator room, paint store
Dispersant system	2 x 6 m spray booms with metering system

Safety equipment

Fast Rescue Boat	1 x 15 men capacity with inboard engine, operated by lowering arm davit
Rescue boat	1 x 6 men with outboard engine
Life rafts	6 x 20 men

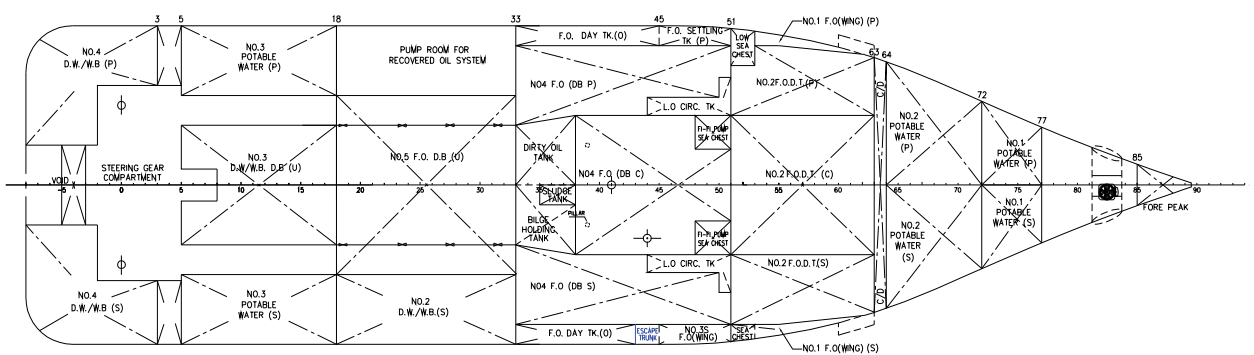
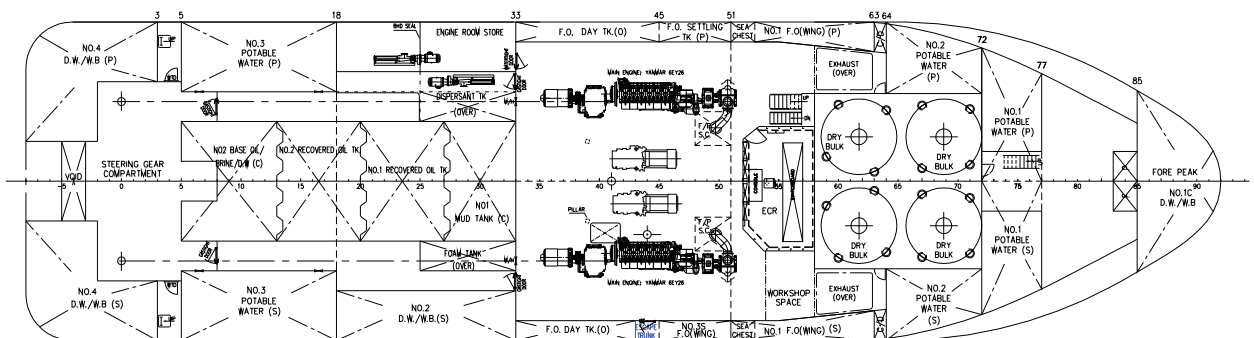
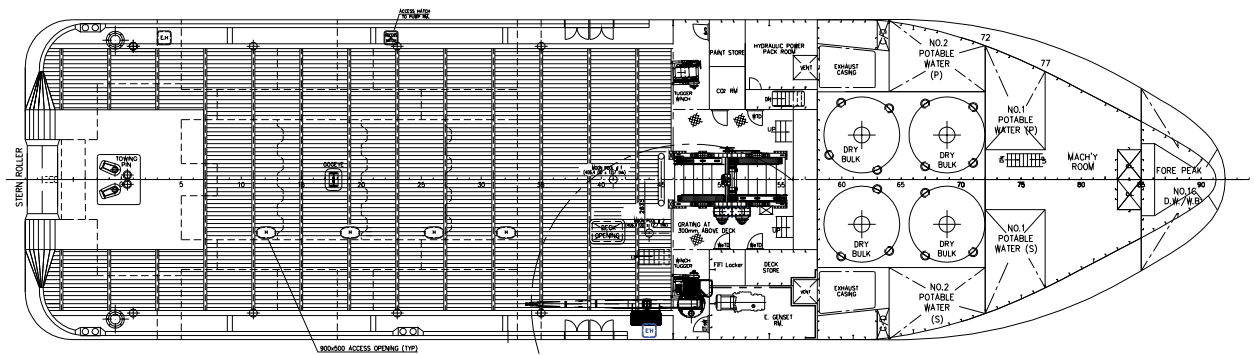
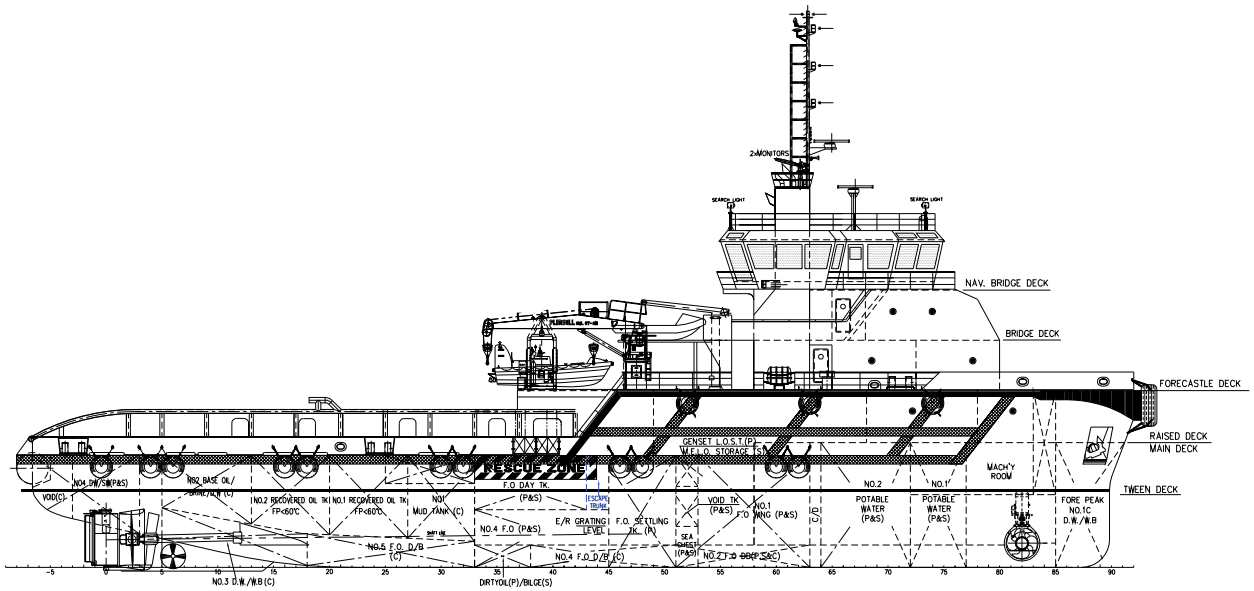
Accommodation - (26 bunks)

4 x 1 berth cabins	4 berths
5 x 2 berth cabins	10 berths
3 x 4 berth cabins	12 berths
1 x Hospital	2 berths

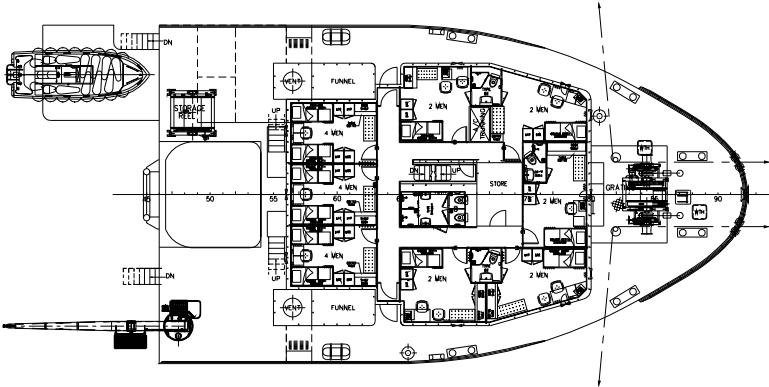
Last revision October 2016

Tank Capacities

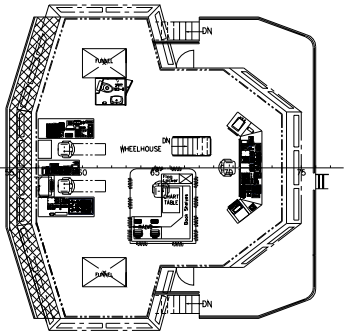
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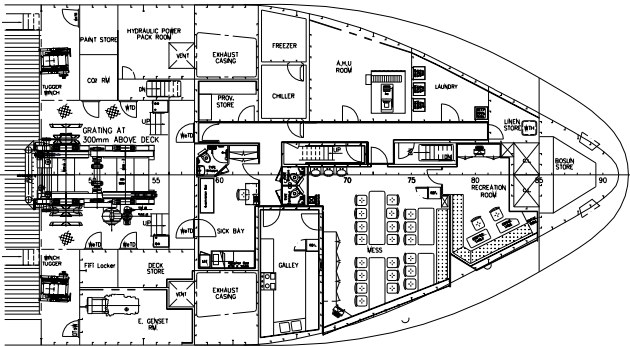
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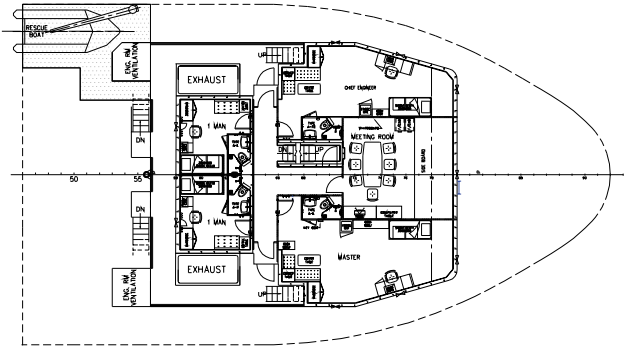
Forecastle deck



Nav. Bridge Deck



Raised deck



Bridge Deck

Principal Particulars

Length overall	60.00 m
Breadth moulded	16.00 m
Depth moulded	6.00 m
Draft loaded	5.1 m
Deadweight	1736.91 t
Clear deck area	380 m ²
Main propulsion engine	2 x 2610 bhp
Maximum speed	14 knots
Bollard pull	67 tonnes
Accommodation	26 bunks
Class notation	ABS+A1, Towing vessel, AH, Fire Fighting Vessel Class1, Offshore Vessel, E +AMS

CONTACT

Commercial Department
Topaz Energy and Marine
Level 58, Almas Tower, Jumeirah Lakes Towers
P.O. Box 282800, Dubai, UAE
Tel +971 4 440 47 00
Fax +971 4 440 47 99
Email commercial.topaz@topazworld.com

TOPAZ MARINE CASPIAN
BUE Caspian Limited
5th Floor, ISR Plaza Business Centre
69 Nizami Street, Baku
AZ1005 Azerbaijan
Tel +994 124 97 87 67
Fax +994 124 97 25 96
Email commercial.caspian@topaz-marine.com

BUE Kazakhstan Limited
2nd Floor, Building 80, Micro Region 14
P.O. Box 130000, Aktau
Republic of Kazakhstan
Tel +7 7292 42 82 72
Fax +7 7292 42 82 77
Email commercial.caspian@topaz-marine.com

BUE Marine Turkmenistan Limited
Bitarap Turkmenistan Shayoly 231,
Oguzkent Hotel Business Centre,
Office 401, Ashgabat, Turkmenistan
Tel +993 12 44 99 38
Fax +993 12 44 99 39
Email commercial.caspian@topaz-marine.com

Topaz Astrakhan Limited
7, Turgeneva str, 2nd Floor
Tel +7 8512 23 80 72
Fax +7 8512 23 80 72
Email commercial.caspian@topaz-marine.com

TOPAZ MARINE MENA
Doha Marine Services WWL
P.O. Box 37102, 4th Floor, Faisaliyah Building
Suheim Bin Hamad Street, Al Saad Area
Doha, State of Qatar
Tel +974 4410 48 00
Fax +974 4447 94 73
Email commercial.mena@topaz-marine.com

Topaz Marine Saudi Arabia Co Ltd.
P.O. Box 4905, Al Jarbou Tower, 9th Floor,
Office 902
Dhahran Street
Al Khobar 31952, Kingdom of Saudi Arabia
Tel +966 13 835 36 30
Fax +966 13 833 41 58
Email commercial.mena@topaz-marine.com

TOPAZ MARINE AFRICA
Topaz Marine Angola
138 Ilha do Cabo
Avenida Murtala Mohammed
Luanda, Angola
Tel +244 222 7250 55
Email commercial.africa@topaz-marine.com

Topaz Marine Nigeria
3rd Floor, Atlantic House
121 Louis Solomon Close, Ahmadu Bello Way
Victoria Island, Lagos, Nigeria
Email commercial.africa@topaz-marine.com