

Topaz K Class

Khobar / Khuwair / Karama / Khalidiya
59 M - 5150 BHP - DP 1 - AHTSV



Vessel Specifications



Vessel Specifications

Registration

Year built / Builder	2010 / Fujian South East Shipyard, China
Flag	Marshall Islands
Class	ABS +A1, Towing Vessel, AH, Fire Fighting Vessel Class 1, Offshore Support Vessel, Oil Recovery Vessel Class 2 , E, +AMS
Managers	Topaz Marine MENA

Dimensions

Length overall	59.25 m
Breadth moulded	14.95 m
Depth moulded	6.10 m
Draft moulded	4.95 m
Deadweight	1400 tonnes
Registered tonnage	GRT: 1678 / NRT: 503

Machinery

Main engines	5150 bhp - 2 x 2575 bhp @ 1600 rpm Caterpillar 3516B HD
Propulsion	2 x ZF KH-680, controllable pitch propellers in Kort Nozzle
Bow thrusters	2 x Kawasaki KT-72B3, CPP type, driven by electric motor, 8 tonnes thrust each
Stern Thruster (Karama / Khalidiya)	1 x Wartsila CT150H, CPP type, driven by electric motor, 400 kW / 6 tonnes thrust
Stern Thruster (Khobar / Khuwair)	1 x Jastram 90 F-FC controlled, FPP type, driven by electric motor, 400 kW / 6 tonnes thrust
Main generators	2 x Caterpillar C18, 350 kW each, 415 V, 50 Hz, 3 Ph
Emergency generator	1 x Caterpillar 65 kW, 415 V, 50 Hz, 3 Ph
Shaft generator	2 x 800 kW, 415 V, 50 Hz, 3 Ph
Fresh water maker	1 x 5 tonnes / day, make: Sea Recovery
Oily water separator	1.0 m ³ / hr with 15 ppm alarm, make: Ocean Clean
Sewage treatment plant	Membrane type for 50 persons

DP Equipment	DP Class-I, Kongsberg K Pos, reference systems: 2 x DGPS
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Capacities

Fuel oil	540 m ³
Fresh water	357 m ³
Drill / Ballast water	396 m ³
Liquid mud	380 m ³ (163 m ³ used for storage of recovered oil when operating in oil recovery mode)
Bulk	187 m ³ (4 x 1650 ft ³)
Foam and detergent	13 m ³ each
Lubricant oil and hydraulic oil	6.35 m ³ each
Clear deck area	350 m ²
Deck cargo capacity	500 mt @ 7.5 tonnes / m ²

Performance

Maximum speed	13 knots
Service speed	10 knots
Bollard pull	65 tonnes

Transfer rates

Fuel oil	1 x 150 m ³ / hr @ 75 m head
Fresh water	1 x 125 m ³ / hr @ 75 m head
Drill water	1 x 100 m ³ / hr @ 75 m head
Liquid mud	2 x 70 m ³ / hr @ 85 m head with recirculation system
Dry bulk	60 tonnes / hr at 75 m head with 5.6 bar air pressure
Bilge / ballast	2 x 75 m ³ / hr @ 40 m head

Vessel Specifications

Deck crane

Port side	Hydraulic telescopic crane, SWL: 3 tonnes; working radius: 9 m Hoisting height: 25 m; hoisting speed: 0~14 m / min
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Navigation and communication

Inmarsat - C (SSAS, LRIT)	Furuno - Felcom 15
GMDSS	Furuno area A1 + A2 + A3
X Band radar	2 x Furuno - FAR 2117, FR-1510MK3
GPS plotter	1 x Furuno - GP 150
ECDIS	1 x P C Maritime
AIS	1 x Furuno - FA 150
Autopilot	1 x Anschuetz - NP 60
Navtex receiver	1 x Furuno - NX 700A
Gyro compass	1 x Anschuetz standard 22
Magnetic compass	1 x Cassens Plath
Communications: data / fax / phone	Fleet broadband 150
MF / HF SSB radio	1 x Furuno - FS 2570
Echo sounder	1 x Furuno - FE 700
MF / HF transceiver	1 x Furuno RC 1500
2 Way VHF radio	3 x SRH-50
SART	2 x Mcurdo-S4
Speed log	1 x Furuno - DS-80
Weather fax receiver	1 x Furuno - FAX 408
Anemometer	1 x R M Young - 05106
EPIRB	1 x Mcurdo

Towing / anchor handling / mooring

Anchor handling towing winch	1 x Double drum waterfall type electro-hydraulic winch Make: Plimsoll, 150 tonnes line pull and 200 tonnes brake holding capacity
Upper & lower drum wire capacity	1000 m (L) x 56 mm diameter SWR @ 10 Layers
Rated pull (1 st layer)	150 tonnes @ 0~6 m / min (1 st speed), 75 tonnes @ 0~12 m / min (2 nd speed) 25 tonnes @ 0~36 m / min (3 rd speed)
Brake holding	200 tonnes static @ 1 st layer
Stern roller	1.6 m diameter x 4 m length, 200 MT SWL
Shark jaws	1 set x SWL 200 tonnes hydraulic, make: Plimsoll (i) Wire size : 32 mm to 114 mm, (ii) Chain size: 38 mm to 114 mm
Towing pins	1 set x 200 tonnes, 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
Rope reel for spare tow wire	1 x electro-hydraulic, make: Plimsoll Drum capacity: 1000 m (length) x 56 mm (diameter) SWR @ 10 layers Rated pull: 5 tonnes x 30 m / min (1 st layer)
Anchor windlass	1 x 6.1 t @ 10 m / min electro-hydraulic, make: Plimsoll
Anchor chain	2 x 220 m x 36 mm diameter, Grade IIa stud link chain
Anchor	2 x 1305 kg AC-14 high holding power
Capstan	2 x 5 tonnes @ 15 m / min, electro-hydraulic, make: Plimsoll Brake holding capacity: 37.30 tonnes

Firefighting, anti-pollution equipment and oil recovery equipment

FIFI System	FIFI class 1 with water curtain all round
Fire monitors	- (water) 1 x 1200 m ³ / hr @ 12 bar - (water / foam) 1 x 300 - 1200 m ³ / hr @ 12 bar
Fire pumps	2 x 1650 m ³ / hr @ 12 bar, PTO from main engines
Dispersant system	2 x spray booms on port and starboard side
Oil recovery equipment	1 x Lamor oil recovery system, side collector LSC-3C, recovery rate: 150 m ³ / hr

Vessel Specifications

Safety equipment

Fast rescue craft	1 x 15 men
Life rafts	6 x 25 men inflatable type SOLAS approved
Rescue boat	1 x 6 men
Life buoys	8 sets, SOLAS approved
Life jackets	60 sets, SOLAS approved
Fireman outfit	4 complete sets
EEBD	6 units + 1 training unit
Parachute distress signal	12 units

Accommodation (42 bunks)

Berths	4 x 1 berth cabin = 4 berths
	3 x 2 berth cabin = 6 berths
	8 x 4 berth cabin = 32 berths
	1 x hospital

All cabins fully air conditioned & c/w attached toilets

Last revision October 2015

Tank Capacities

	SG	Fuel oil	Pot water	Drill water	Ballast water	Liquid mud	Brine	Base oil	Glycol	Dry bulk	Oil recovery
	M3	0,850	1,000	1,000	1,025	2,500	2,500	0,830	1,120	2,400	1,000
D.W/W.B.F.P. tank ©	137.5			137.5							
No. 1 D.W./W.B. DB tank (p)	58.83			58.83							
No. 1 D.W./W.B. DB tank (s)	56.10			56.10							
No. 2 D.W./W.B. DB tank (p)	40.35			40.35							
No. 2 D.W./W.B. DB tank (s)	40.35			40.35							
D.W/W.B.AP. tank (p)	31.42			31.42							
D.W/W.B.AP. tank (s)	31.42			31.42							
No. 1 F.W. wing tank (p)	42.84		42.84								
No. 1 F.W. wing tank (s)	42.84		42.84								
No. 2 F.W. tank (c)	55.30		55.30								
No. 3 F.W. DB tank (p)	18.65		18.65								
No. 3 F.W. DB tank (s)	18.65		18.65								
No. 4 F.W. wing tank (p)	40.82		40.82								
No. 4 F.W. wing tank (s)	40.82		40.82								
No. 5 F.W. wing tank (p)	47.75		47.75								
No. 5 F.W. wing tank (s)	49.65		49.65								
F.O. day tank (p)	15.88	13.23									
F.O. day tank (s)	15.88	13.23									
No. 1 F.O. wing tank (p)	33.80	28.16									
No. 1 F.O. DB tank (s)	36.26	30.20									
No. 2 F.O. DB tank (p)	66.45	55.35									
No. 2 F.O. DB tank (s)	66.45	55.35									
No. 3 F.O. DB tank (p)	33.04	27.52									
No. 3 F.O. DB tank (s)	33.04	27.52									
No. 4 F.O. wing tank (p)	119.57	99.61									
No. 4 F.O. wing tank (s)	119.57	99.61									
No. 1 Mud tank / RO (p)	81.40					203.51					81.40
No. 1 Mud tank / RO (s)	81.40					203.51					81.40
No. 2 Mud tank (p)	108.72					271.81					
No. 2 Mud tank (s)	108.72					271.81					
No. 1 Cement tank	46.72									64.47	
No. 2 Cement tank	46.72									64.47	
No. 3 Cement tank	46.72									64.47	
No. 4 Cement tank	46.72									64.47	
Bilge holding tank (p)	6.50										
Dirty oil tank (s)	6.50										
Foam tank (p)	13.31										
Detergent tank (s)	13.31										
Hydraulic oil tank (p)	3.18										
Hydraulic oil tank (s)	3.18										
Lube oil tank (s)	6.35										
Weight in tonnes		450	357	396		951				258	163
Volume in m³		540	357	396		380				187	163

All figures shown are based on tank volume at 100% filling

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