

# Topaz Jaddaf

59 M – 5150 BHP – FiFi 1 – DP 1 – AHTSV

Vessel Specifications



# Vessel Specifications

## Registration

Year built / Builder	2008 / Fujian South East Shipyard, China
Flag / Port of registry	Marshall Islands / Majuro
Class	ABS +A1, Towing Vessel, Fire Fighting Vessel Class 1, Offshore Support Vessel AH, Oil Recovery Vessel 2, E, +AMS, +DPS-1
Managers	Topaz Marine

## Dimensions

Length Overall	59.25 m
Breadth Moulded	14.95 m
Depth Moulded	6.10 m
Draft Loaded	4.95 m
Deadweight	1372 mt
Registered Tonnage	GRT 1678 Tons / NRT 503 Tons

## Machinery

Main Engines	5150 BHP - 2 x 2575 BHP @ 1600 rpm Caterpillar 3516B
Propellers	2 x ZF CPP in Kort Nozzles, Dia-2.625 M
Bow Thrusters	1 x Kawasaki KT-55B1, CPP Tunnel Thruster, 6 tonnes thrust
Main Generators	3 x Caterpillar 3408 DITA Engine, 315 kw each, 415 V, 50 Hz, 3 Ph
Emergency generators	1 x Caterpillar C4.4, 52 KW, 415 V, 50 Hz, 3 Ph *
Oily Water Separator	1.0 m <sup>3</sup> / hr with 15 ppm alarm, make: Ocean Clean
Sewage Treatment Plant	1 x 30 person capacity, make: Jiangsu Nanji Machinery WCB-30

## DP Equipment

DP system	DP class 1, KPOS DP 11
References	2 x 9205 DGPS 1 x Cyscan MK4

## Capacities

Fuel Oil	536 m <sup>3</sup>
Fresh Water	370 m <sup>3</sup>
Drill/ Ballast water	395 m <sup>3</sup>
Liquid Mud	419 m <sup>3</sup>
Bulk	187 m <sup>3</sup>
Foam and detergent	13 m <sup>3</sup> each
Clear Deck Area	350 m <sup>2</sup>
Deck Cargo capacity	500 tons @ 7.5 tonnes / m <sup>2</sup>

## Performance

Maximum Speed	13 knots
Service Speed	10 knots
Bollard Pull	63 tons

## Transfer rates

Fuel Oil	1 x 150 m <sup>3</sup> / hr @ 75 m head
Fresh Water	2 x 125 m <sup>3</sup> / hr @ 75 m head
Drill Water	2 x 100 m <sup>3</sup> / hr @ 75 m head
Liquid Mud	2 x 75 m <sup>3</sup> / hr @ 75 m head, 2 x electrical driven agitators
Dry bulk	60 tonnes / hr @ 75 m head

## Deck Crane

Port Side	Hydraulic Telescopic Crane: SWL: 3 t, working radius: 9 m Hoisting height: 25 m, hoisting speed: 0~14 m / min
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# Vessel Specifications

## Navigation and Communication

Inmarsat C	Furuno Felcom-15
GMDSS	1 x Furuno, A3
Radars	2 x Furuno - FR-2115, FR 1510
GPS	1 x Furuno - GP 150
ECDIS	1 x P C Maritime
AIS	1 x Furuno-FA-150
Autopilot	1 x Nautopilot NP 60
Navtex Receiver	1 x Furuno - NX 700B
Gyro Compass	1 x Master Gyro Compass c/w two repeaters and azimuth circle
Magnetic Compass	1 x Cassens Plath
SSB radio	1 x Furuno FS 2570
Echo Sounder	1 x Furuno - FE 700
VHF radio	2 x Furuno - FM8800D / 8800S
SART	2 x Mcurdo - KLS-S4-1
Speed log	1 x Furuno DS 80
Weather facsimile receiver	1 x Furuno Fax-408
Anemometer	1 x Ohn Lilley & Gille - P 247
EPIRB	1 x Mcurdo E5

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## 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, SLP monitored by CCTV Cameras
Upper and lower drum	1000 m (length) x 56 mm (diameter) SWR 10 layers
Rated pull (1 <sup>st</sup> layer)	150 tonnes @ 0~06 m / min (1 <sup>st</sup> speed) 75 tonnes @ 0~12 m / min (2 <sup>nd</sup> speed) 25 tonnes @ 0~36 m / min (3 <sup>rd</sup> speed)
Brake holding	200 tonnes static @ 1 <sup>st</sup> layer
Stern roller	1.6 m (diameter) x 4.4 m (length), 200 MT SWL
Shark jaws	1 x set SWL 200 MT hydraulic, make: Plimsoll
Towing pins	1 x set 200 MT, make: Plimsoll
Tugger winch	2 x 10 tonnes @ 15 m / min electro-hydraulic, Make: Plimsoll, brake holding capacity 15 tonnes static at 1 <sup>st</sup> 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
Anchor windlass	1 x 6.1 tonnes @ 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 1350 kg Stockless WMAC 14
Capstan	2 x 5 tonnes @ 15 m / min electro hydraulic, make: Plimsoll

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## Fire Fighting equipment and anti-pollution equipment

FIFI system	FIFI Class 1 with water curtain all round
FIFI monitors (Water)	2 x 1200 m <sup>3</sup> / hr @ 12 bar, remote Joystick controlled from bridge
FIFI pumps	2 x 1650 m <sup>3</sup> / hr @ 12 bar
Dispersant system	2 x 6 mtr spray boom on port and starboard side

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## Safety equipment

Life rafts	6 x 15 men
Rescue boat	1 x 6 men with outboard engine
Life bouys	8 sets, SOLAS approved
Life jackets	60 sets, SOLAS approved
Fire Man outfit	06 sets
EEBD	11 Units
Parachute distress signal	12 Units

# Vessel Specifications

## Accommodation (30 bunks)

Berths	4 x 1 berth cabins	=	4 berths
	9 x 2 berth cabins	=	18 berths
	2 x 4 berth cabins	=	8 berths
	1 x hospital	=	1 berth

All cabins fully air-conditioned & c/w attached toilets.

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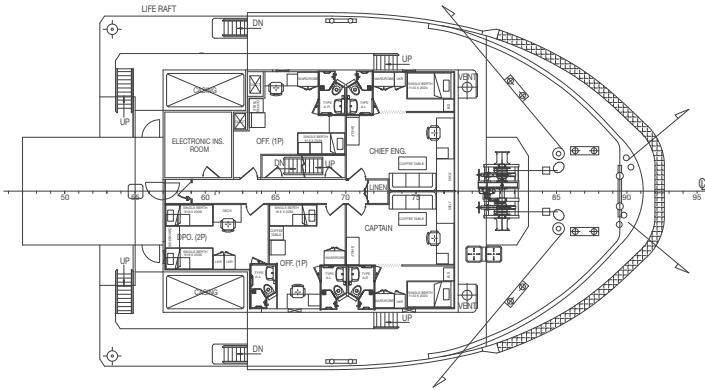
# Tank Capacities

	SG	Fuel oil	Pot water	Drill water	Ballast water	Liquid mud	Brine M3	Base oil	Methanol	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
NO.1 F.W. WING (P)	44.37		44.37								
NO.1 F.W. WING TK (S)	44.37		44.37								
NO.2 F.W. DB TK (C)	67.05		67.05								
NO.3 F.W. WING TK (P)	40.82		40.82								
NO.3 F.W. WING TK (S)	40.82		40.82								
NO.4 F.W. DB (P)	18.65		18.65								
NO.4 F.W. DB (S)	18.65		18.65								
NO.5 F.W. WING TK (P)	47.75		47.75								
NO.5 F.W. WING TK (S)	47.75		47.75								
DW / WB FP TK (C)	137.48				137.48						
DW / WB AFT TK (P)	31.46				31.46						
DW / WB AFT TK (S)	31.46				31.46						
NO.1 DW / WB DB TK (P)	58.83				58.83						
NO.1 DW / WB DB TK (S)	55.95				55.95						
NO.2 DW / WB DB TK (P)	40.35				40.35						
NO.2 DW / WB DB TK (S)	40.35				40.35						
<b>FUEL OIL TK</b>											
F.O. DAY TK (P)	15.88	13.23									
F.O. DAY TK (S)	15.88	13.23									
NO.1 F.O. WING TK (P)	33.8	28.16									
NO.1 F.O. WING TK (S)	36.26	30.20									
NO.2 F.O. DB TK (P)	66.49	55.39									
NO.2 F.O. DB TK (S)	66.49	55.39									
NO.3 F.O. DB TK (P)	31.35	26.21									
NO.3 F.O. DB TK (S)	31.35	26.21									
NO.4 F.O. WING TK (P)	119.57	99.6									
NO.4 F.O. WING TK (S)	119.57	99.6									
<b>OTHER TANKS</b>											
BILGE HOLDING TK (P)	6.5										5.85
DIRTY OIL TK (S)	6.5										5.85
FOAM TK (P)	13.31										13.31
DETERGENT TK (S)	13.31										13.31
HYD OIL TK (P)	3.18										2.94
HYD OIL TK (S)	3.18										2.94
LUBE OIL TK (S)	6.35										5.87
<b>MUD TANKS</b>											
NO.1 MUD TK (P)	99.89					249.73					
NO.1 MUD TK (S)	99.89					249.73					
NO.2 MUD TK (P)	109.82					274.56					
NO.2 MUD TK (S)	109.82					274.56					
<b>CEMENT TANKS</b>											
NO.1 CEMENT TK	46.72									64.47	
NO.2 CEMENT TK	46.72									64.47	
NO.3 CEMENT TK	46.72									64.47	
NO.4 CEMENT TK	46.72									64.47	
<b>Weight in tons</b>		<b>417</b>	<b>370</b>		<b>395</b>	<b>1049</b>				<b>258</b>	<b>50.70</b>
<b>Volume in m<sup>3</sup></b>		<b>536</b>	<b>370</b>		<b>395</b>	<b>419</b>				<b>187</b>	<b>52.33</b>

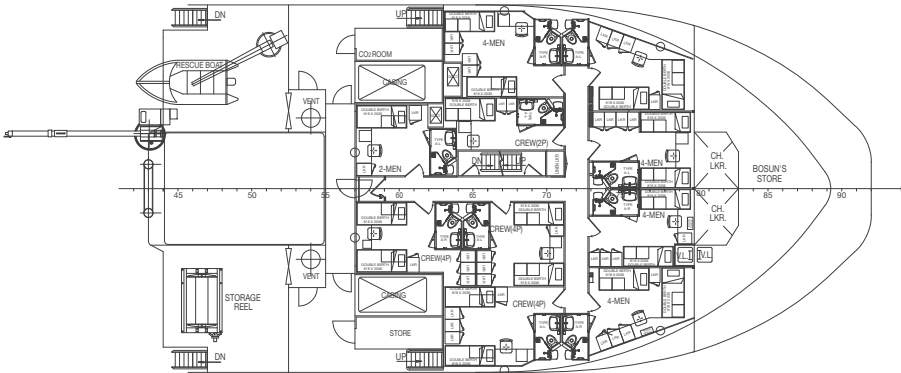
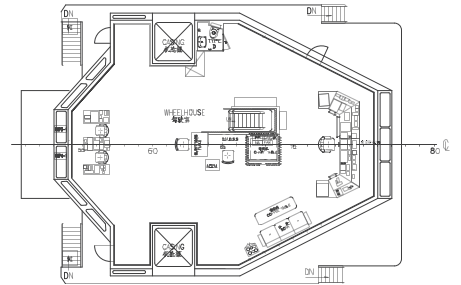




# GA Specifications



Forecastle deck



Upper forecastle deck

- Fresh Water
- Ballast / Drill Water
- Fuel
- Dry Bulk
- Mud / Brine

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