

Topaz Dignity / Topaz Triumph

67m - 7400 BHP - DP II - Anchor Handling Tug Supply Vessel

Vessel Specifications

TOPAZ
MARINE



Vessel Specifications

Registration

Year built / builder	2012 / Topaz Ship Building, Abu Dhabi
Flag / port of registry	Azerbaijan
Class / notation	ABS, +A1, Anchor Handling / Offshore Support, Towing Vessel, Fire Fighting Class 1, (E), +AMS, +ABCU, +DPS-2, UWILD
Call sign / IMO No.	ZGCB8 / IMO 9654983 (Topaz Dignity) / IMO 9654995 (Topaz Triumph)
Managers	Topaz Marine

Dimensions

Length overall	67.4 m approx.
Breadth moulded	16 m approx.
Depth moulded	6.8 m approx.
Draft max	5.7 m approx.
Design draft	4.8 m approx.
Deadweight	2100 t approx.
Registered tonnage	GRT: 2148 t / NRT: 644 t

Machinery

Main engines	7400 bhp - 2 x 3700 bhp @ 800 rpm MAN 8L27/38
Propulsion	2 x CPP Kort NOzzles, diameter: 2800 mm
Rudders	2 x Rolls Royce
Bow thrusters	2 x 540 kW electric-driven tunnel type (CPP)
Stern thruster	1 x 540 kW electric-driven tunnel type (CPP)
Main generator	2 x MAN D 2842 LE 301, 515 ekW, 440V / 60 hz, diesel driven
Emergency generator	1 x Caterpillar C4.4 95 kW, 118 kva / 60 hz / 480V
Shaft generator	2 x 515 kW / 440V / 60 hz @ 1800 rpm, Make: Leroy Somer, type LSAM 49.1 M6
Freshwater maker	Available
Oily water separator	1 x 10 m ³ per hr @ 30 m, Make:
Sewage treatment plant	1 x 42 persons capacity, IMO / MARPOL approved
Bilge water separator	1 x 1 m ³ per hr @ 5 m ³

DP equipment

DP system	DP II Kongsberg
References	1 x Fanbeam - MDL 2 x DGPS - 1 x Kongsberg DPS 112 - 1 x Trimble + Sea Star 3610 3 x Gyros 3 x Wind sensors

Deck Crane

Main crane (starboard side)	1 x Knuckle Boom type SWL: 15.8 t @ 7.32 m; 5.8 t @ 18.05 m
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Capacities 100%

Fuel oil	600 m ³ approx.
Fresh water	450 m ³ approx.
Ballast / drill water	825 m ³ approx.
Liquid mud (6 tanks)	600 m ³ approx.
Bulk cement (4 tanks)	170 m ³ approx. (6000 ft ³)
Rig chain lockers	130 m ³
Clear deck area	400 m ²
Deck cargo capacity	900 mt approx. @ 10 t per m ²
Freezer / chiller / dry provisions	8 m ³ / 9 m ³ / 12 m ³

Vessel Specifications

Transfer rates

Fuel oil	1 x 100 m ³ per hr @ 7.5 bar, electrically-driven / centrifugal type
Fresh water	1 x 100 m ³ per hr @ 7.5 bar, electrically-driven / centrifugal type
Water ballast / drill water	Q = 85 m ³ per hr; H = 7.5 bar / centrifugal
Liquid mud	1 x 75 m ³ per hr @ 10 bar, mud agitation-recirculation system
Brine	1 x 75 m ³ per hr @ 10 bar, mud agitation-recirculation system
Bulk cement	80 psi / 5.6 bar

Navigation and communication

Inmarsat C	1 x Furuno Felcom 15
GMDSS	Furuno
X-band radars	1 x 9 ghz (X band), 3 ghz (S band)
GPS plotter	GPS 1 x 1.5 ghz
AIS Class A	Furuno FA-150, 156.025-162.025 mhz
Autopilot	Make: Anschutz
Navtex receiver	1 x Furuno NX-700
Gyro compass	1 x Standard 22 Make: Sperry
Magnetic compass	1 x Magnetic compass Make: Lille & Gille
Communications: data / fax/ phone	Fleet broadband
MF / HF / SSB radio	1 x Furuno FM 8800S
Echo sounder	1 x Furuno 50 khz
MF / HF transceiver	1 x Furuno FS-1570
2-way VHF radio	2 x Jotron - TR 20-22
SART	2 x Jotron - TRON SART
Speed log	Make: Ben Marine
Log	1 x DS-80 @ 1 mhz
Weather facsimile receiver	Not fitted
Anemometer	Ultrasonic - Windobserver II, W/RS422 & 10M Cable
EPIRB	1 x Jotron - TRON 40S
Portable radios	Portable handheld VHF
SSAS	Make: Furuno
Global wireless system	Make: Thrane / Zener
CCTV system	Make: Kodicom / Zener

Towing / Anchor handling / Mooring

Anchor handling / towing winch	1 x double drum waterfall type with hydraulic-drive units
Drum capacity	1500 m x 64 mm (diameter) SWR
Rated pull (1 st layer)	200 tons x 6 m per min @ 1 st layer 92 tons x 12 m per min @ 1 st layer 65 tons x 18 m per min @ 1 st layer
Brake holding	300 tons static @ 1 st layer
Stern roller	1800 mm (dia) x 4600 mm (length), 250 tons SWL
Shark jaws	2 x 150 t hydraulic operated
Towing pins	2 x 150 t
Tugger winch	2 x 10 tons x 15 m per min @ 1 st layer Static brake holding: 15 ton @ 1 st layer Drum capacity: 250 m x 25 m diameter SWR
Rope reel for spare tow wire	Drum capacity: 1500 m (length) x 64 mm (diameter) SWL
Anchor windlass	1 x electro-hydraulic double gypsy with 2 declutchable cable lifters Chain diameter -38 mm / grade -3, static brake holding 53.3 tons
Anchor chain	1 x 467.5 m x 36 mm diameter. grade 3
Anchor	2 x 1710 kg HHP bow anchors 2
Capstan	2 x 6 t @ 25 m per min, 400 mm (diameter)

Vessel Specifications

Performance

Max speed	12 knots
Service speed	10 knots
Bollard pull	80 t

Fire-fighting and anti-pollution equipment

External

FiFi system	Class 1 with water curtain all around
Monitors: Water / foam	1 x 1200 m ³
Water	1 x 1200 m ³
	Throw length / height: 120 m / 50 m
Fire pump	1 x 60 m ³ per hr @ 80 m
Oil dispersant system	Not fitted

Internal

Emergency fire pump	1 x 160 m ³ per hr @ 80 m head
Bilge / fire pump	2 x 60 m ³ @ 25 m head
BA recharging compressor	Bauer BA compressor
Fixed CO ² system	Centralized CO ² system covering engine room, bow thruster room, steering gear room, machinery spaces, paint store as per SOLAS
Internal fire-fighting system	Water CO ² - 11 nos DCP - 15 nos Foam - 13 nos 1 x fire blankets, 7 x fire axe, 16 x fire hydrant, 1 x international shore connections
Fire detection & alarm system	1 x 7 zone as per class requirements

Safety equipment

Fast rescue craft	1 x 13 men - 2 x 60 HP outboard engines (SOLAS & LSA approved)
Life rafts	4 x 20 men, 2 x 25 men (SOLAS approved)
Life buoys / life jackets	As per LSA code
Parachute distress signals	As per LSA code
Fireman outfit	4 sets

Accommodation (42 bunks)

	8 x 1 berth cabins = 8
	15 x 2 berth cabins = 30
	1 x 4 berth cabins = 4
Total	42
Hospital	1 x 1 berth cabin

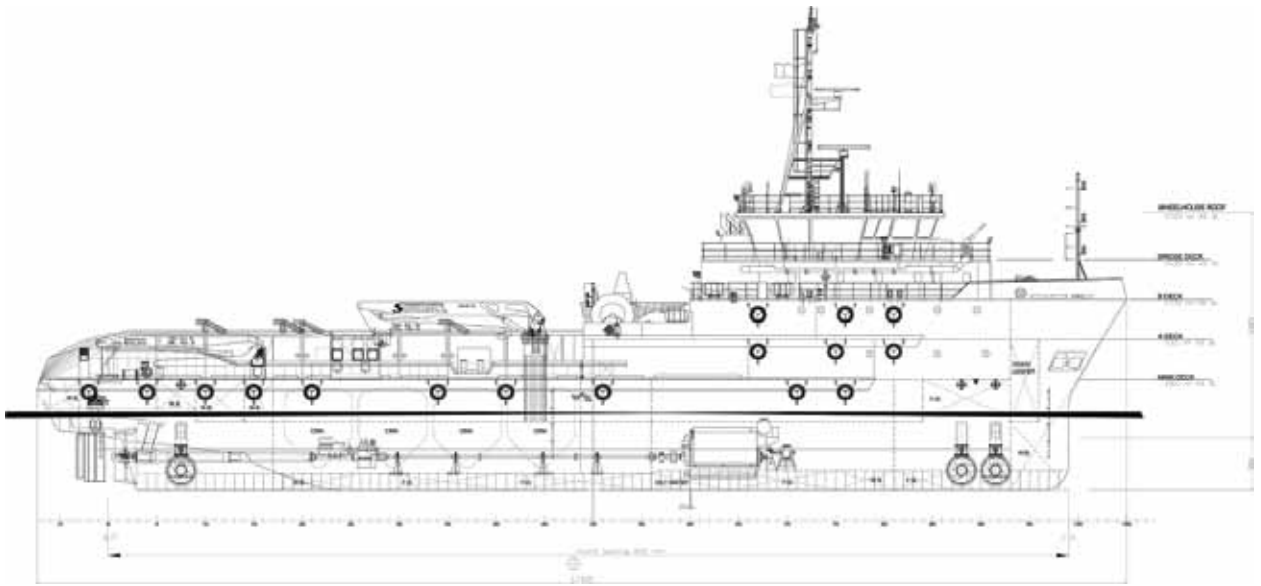
All cabins fully air-conditioned & c/w attached toilets.

Last revision February 2016

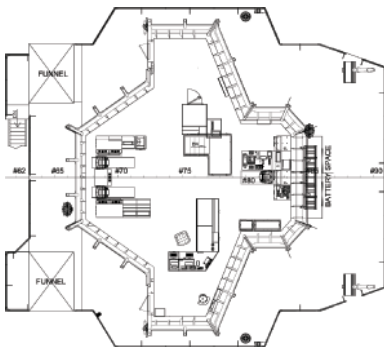
Tank Capacities

Tanks	SG	Fuel oil	Pot water	Drill water	Ballast water	Liquid mud	Brine	Base oil	Glycol	Dry bulk
	M ³	0.860	1.000	1.000	1.025	2.500	2.500	0.830	1.120	2.400
FOREPEAK TANK	103.20				100.7					
DB./WING TANK 2 PS	62.30				60.8					
DB./WING TANK 2 SB	81.80				79.8					
WING TANK 6 PS	65.30				63.7					
WING TANK 6 SB	65.30				63.7					
AFT PEAK TANK PS	36.50				35.6					
AFT PEAK TANK SB	30.00				29.3					
WING TANK 4 PS	54.50				53.2					
WING TANK 4 SB	54.50				53.2					
WING TANK 5 PS	43.30				42.2					
WING TANK 5 SB	43.30				42.2					
STAB. TANK NO. 1	73.40			73.4						
STAB. TANK NO. 2	122.10			122.1						
STAB. TANK NO. 3	68.60			68.6						
DB./WING TANK 1 PS	147.50		147.5							
DB./WING TANK 1 SB	144.90		144.9							
DB. TANK 6 CENTRE	15.70		15.7							
WING TANK 7 PS	43.00		43.0							
WING TANK 7 SB	43.00		43.0							
WING TANK 8 PS	23.30		23.3							
WING TANK 8 SB	23.30		23.3							
D.B. TANK 3 PS	75.90	88.26								
D.B. TANK 3 SB	77.80	90.47								
D.B. TANK 4 PS	78.30	91.05								
D.B. TANK 4 SB	78.30	91.05								
D.B. TANK 5 PS	58.30	67.79								
D.B. TANK 5 SB	58.30	67.79								
F.O. TANK 6 PS	48.10	55.93								
F.O. TANK 6 SB	48.10	55.93								
F.O. SERVICE TANK SB	23.30	27.09								
F.O. SERVICE TANK PS	29.40	34.19								
F.O. SETTLING TANK	37.30	43.37								
MUD/BRINE/W.B. TANK 1 PS	78.90					31.6				
MUD/BRINE/W.B. TANK 1 SB	78.90					31.6				
MUD TANK 2 PS	78.90					31.6				
MUD TANK 2 SB	78.90					31.6				
MUD TANK 3 PS	78.90					31.6				
MUD TANK 3 SB	78.90					31.6				
BHS 1 CEM.	45.20									108.48
BHS 2 CEM.	45.20									108.48
BHS 3 CEM.	45.20									108.48
BHS 4 CEM.	45.20									108.48
Weight in Tons		613.10	441	264.10	624.39	189.36				433.92
Volume in m³		712.91	441	264.10	640.00	473.40				180.80

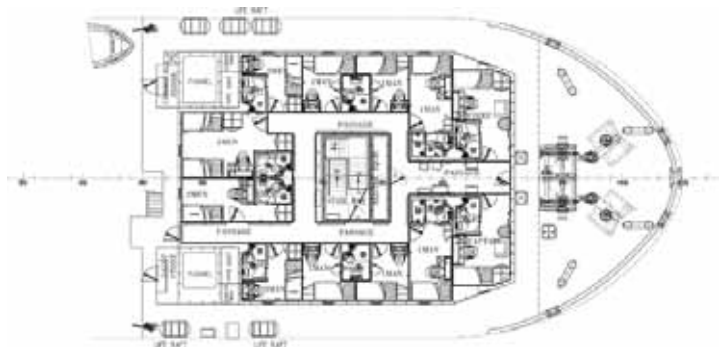
GA Specifications



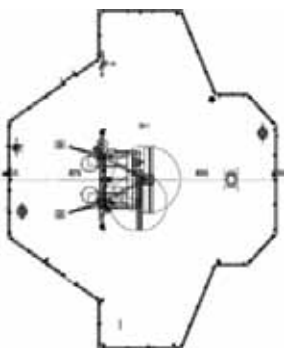
Profile



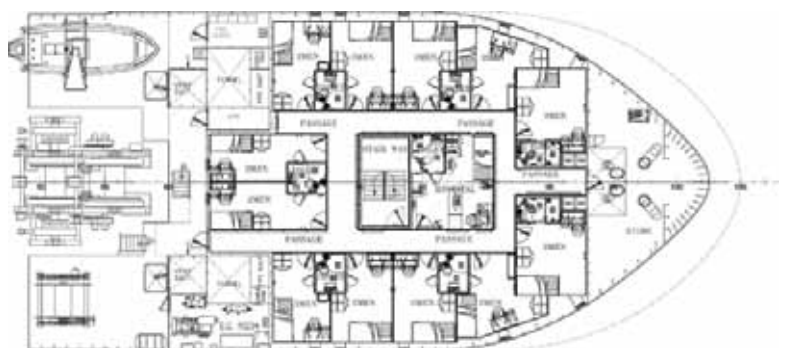
Bridge deck



B deck

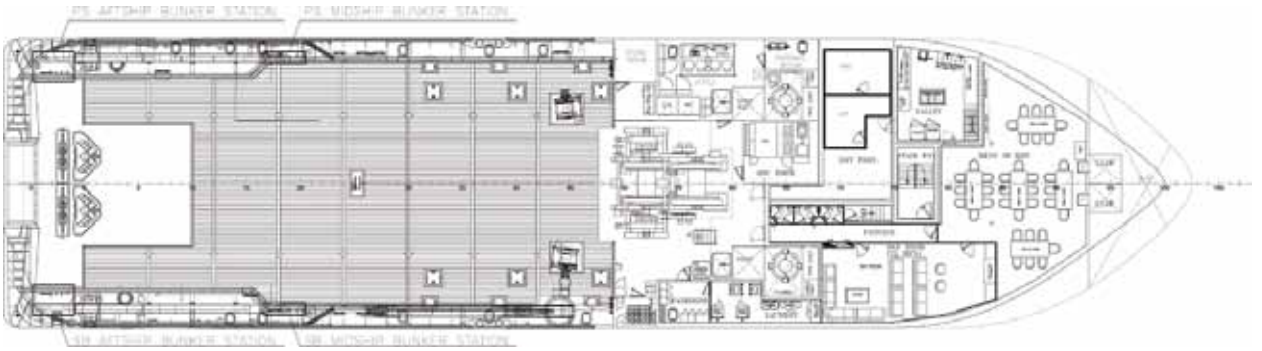


Wheelhouse roof

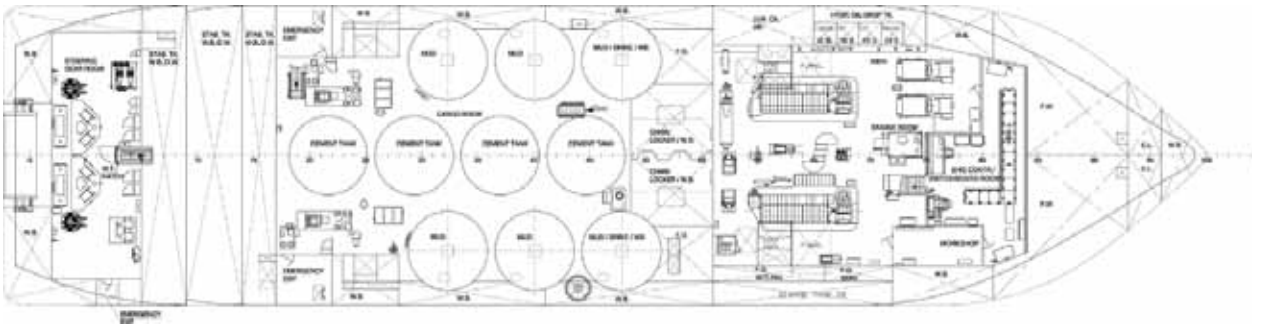


A deck

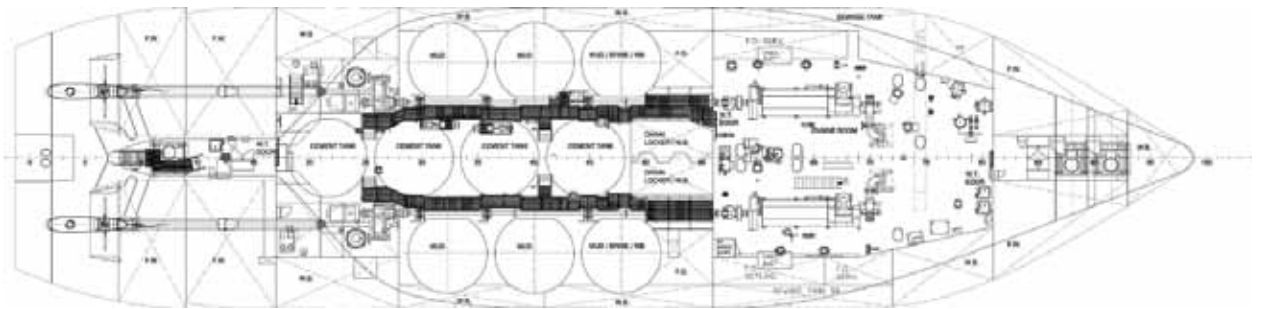
GA Specifications



Main deck



Tween deck



Tank top

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