



AZERBAIJAN  
CASPIAN SHIPPING  
COMPANY



# MARDAKAN

V E S S E L S P E C I F I C A T I O N S



6,000 BHP/81,32 TBR/DPS-1/ FiFi Class 1



# Vessel Specifications

## Dimensions

Length overall, m	60,00
Length between perpendicular, m	58.74
Breadth overall, m	16.00
Hull height, m	6
Net Tonnage, t	529
Gross tonnage, t	1763

## Capacities

Fresh Water, t, m <sup>3</sup>	310
Fuel tank, m <sup>3</sup>	555.9
Drill water, m <sup>3</sup>	752,1
Mud tank, m <sup>3</sup>	238.3
Cement tank, m <sup>3</sup>	170 (4x1500 ft <sup>3</sup> )
Freezer / Chiller, m <sup>3</sup>	10/10
Foam / Detergent, m <sup>3</sup>	17.7/17.7
Deck cargo capacity, t	550
Deck strength, ton/ m <sup>2</sup>	5.0
Clear deck area, m <sup>2</sup>	360
Endurance	30 days

## Speed/Fuel

Max speed	13 knots / 24 m <sup>3</sup> / 24 hrs @100% MCR
Economic speed	10 knots / 16 m <sup>3</sup> / 24 hrs @85 % MCR
Quality of fuel	MGO

## General Data

Port of registry / Call sign	Baku DGR-1141 4-JRY
Purpose Of The Ship	AHTS (Anchor Handling Towing and Supply) and FiFi Class 1 Vessel
Flag	Azerbaijan
Year built / builder	2009 Batamec, Indonesia

## Machinery and Propulsio

Main engines	2 x 2206 kw (3000 bhp) @ 750 rpm Niigata 6MG 28 HLX
Generators	x 370 kw @ 1800 rpm / 440V / 3Ph / 60HzCaterpillar 3408DITA
Emergency Generator	1 x 99 kw @ 1800 rpm / 440V / 3Ph / 60HzCaterpillar C4.4
Shaft Alternator	2x 750 kw @ 1800 rpm / 450V / 3Ph / 60HzLeroy Somer LSA M50.1M6-4P
Propellers	2 x CPP in Kort Nozzles; Kamome
Bow thruster	1 x 620 kw engine-driven Schottel STT tunnel type (CPP); 8T thrust
Stern thruster	1 x 450 kw electric-driven Schottel STT 330T LKCP Rescue boat 1 x 6 men semi-rigid Gemini Marine tunnel type (CPP); 6T thrust
Steering Gear	2 x Hatlapa; 3T; 45 deg
Rudders	2 x high performance streamline Becker

## Special Equipment

Bollard Pull	81,32 MT
Anchor Windlass	1 x electro-hydraulic Plimsoll PC-HAW/GG-34
Drum	Nilsuit' for 38 mm (Ø) chains rated pull
Gypsies	10 mt @ 15 m/min
Warping drum	400 mm (dia) x 450 mm (L) rated pull 5 mt @ 15 m/min
Bow Anchors	2 x 1440 kg high holding power anchors
Chains	300 m (L) x 38 mm (Ø) Grade U2 (each side)
Capstan	2 x 5 mt @ 15 m/min electro-hydraulic; Plimsoll PC-HVC-05/380
Tugger Winch	2 x 10 mt @ 15 m/min electro-hydraulic; Plimsoll PC-HUW-10/380Drum Capacity: 200 m (L) x 28 mm (dia) SWR
Deck Crane	1 x 3T @ 1.7m Plimsoll A-807TF-35 Knuckle-boom type

Towing/AH Winch  
Upper Drum Cap (Tow)  
Lower Drum Cap (AH)  
Line Pull

Stall Pull  
Brake Capacity  
Gypsies  
Warping Drums  
Stern Roller

Shark Jaw

Tow Pins

Rope Reel

DP / Joystick Control  
FiFi 1 System / Oil Pollution Control

1x electro-hydraulic double drum Plimsoll PC-AHTW/WF-150/200  
1000 m (L) x 56 mm (Ø) SWR  
1000 m (L) x 56 mm (Ø) SWR  
150 mt @ 6 mm/min at 1st layer  
71 mt @ 12 m/min at 1st layer  
50 mt @ 18 m/min @ 1st layer  
25 mt @ 36 m/min @ 1st layer  
165 mt @ 1st layer  
200 mt static @ 1st layer;  
Nil  
Nil  
3.50 m (L) x 1.50 m (dia) Plimsoll; SWL 180 mt  
1 x set electro-hydraulic Plimsoll; SWL 300 mt  
2 x electro-hydraulic Plimsoll; SWL 200 mt  
1 x electro-hydraulic Plimsoll PC-HSW/SD-10, Drum Capacity: 1000 m (L) x 56 mm (Ø) SWR  
Converteam ADP-2 system  
With pump capacity of 2 x 1650 m<sup>3</sup> / hour at 140m head, Class FiFi 1 and Monitor - 2 x 1200 m<sup>3</sup> / hour

## Bunkering and Discharge Flow Rate

Fuel	1 x 100 m <sup>3</sup> /hr @ 60m head; Pumpquip-ABA
Fresh Water	1 x 100 m <sup>3</sup> /hr @ 60m head; Pumpquip-Desmi
Drill water	1 x 100 m <sup>3</sup> /hr @ 60m head; Pumpquip-Desmi
Liquid mud	2 x 60 m <sup>3</sup> /hr @ 75m head (SG 2.5); Pumpquip-Mission Mangum
Bilge / Ballast	1 x 60 m <sup>3</sup> /hr @ 60m head; Pumpquip-Desmi
GS/Fire Pump	1 x 60 m <sup>3</sup> /hr @ 60m head; Pumpquip-Desmi
Bulk Cement	2 x 12 m <sup>3</sup> /min @ 80 psi air compressors system fitted with dryers

## Accommodation

Berth total	26
Cabins total	12
Hospital	1

## Navigation Equipment

GMDSS	Patronic (Area 3) comprising;
SSB	Thrane & Thrane DSC-500W
Inmarsat C	Furuno Felcom 15 & Felcom 15 SSAS
VHF Radio	Thrane & Thrane DSC-25W
Navtex Receiver	1 x NX-700 Nav-7 (518 kHz)
SART	2 x McMurdo S4 (9 GHz)
EPIRB	1 x McMurdo E5
Portable VHF Radios	3 x Motorola GP328
Radar	1 x Raytheon Anschutz NSC 2510/6XU 1 x Raytheon Anschutz C 120
Echo Sounder	1 x Furuno FE-700
DGPS	1 x MX Marine MX500
Gyrocompass	2 x Anschutz Standard 22
Autopilot	1 x Anschutz Nautopilot NP60
Magnetic Compass	1 x Lilley & Gillie MK2000
Weather Fax	1 x Furuno FAX 207
Speed Log	1 x Furuno DS-80
Wind Indicator	1 x RM Young 05103
AIS	1 x Mc Murdo M2
DP	Marine Technology Bridge Mate DP1 / ABS
Joystic	Marine Technology / ABS

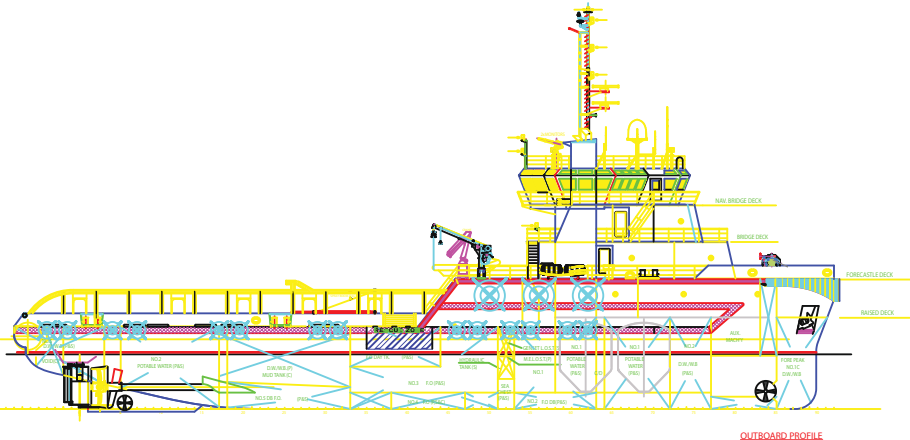
Draft,m	Deadweight,t
2,37	162
3,10	253,0
3,20	323,0
3,30	393,0
3,40	463,0
3,50	533,0
3,60	603,0
3,70	673,0
3,80	743,0
3,90	813,0
4,00	883,0



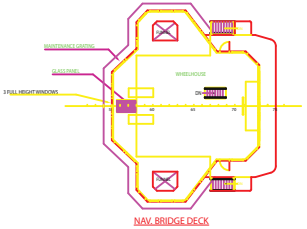
**MARDAKAN**

VESSEL SPECIFICATIONS  
6,000 BHP/81,32 TBR/DPS-1/ FiFi Class 1

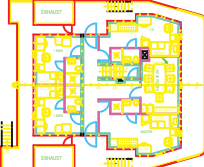
# GA Specifications



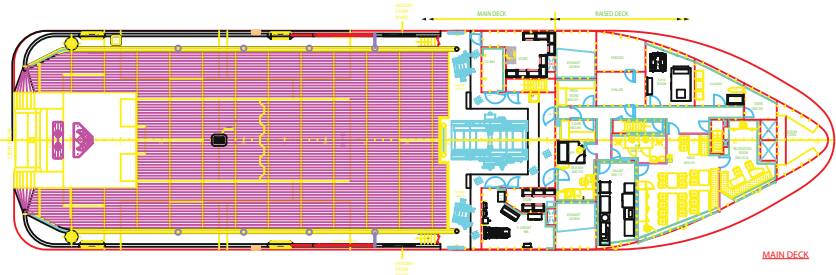
OUTBOARD PROFILE



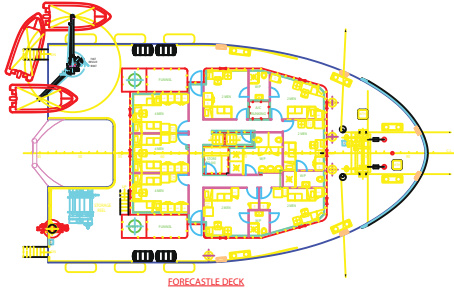
NAV. BRIDGE DECK



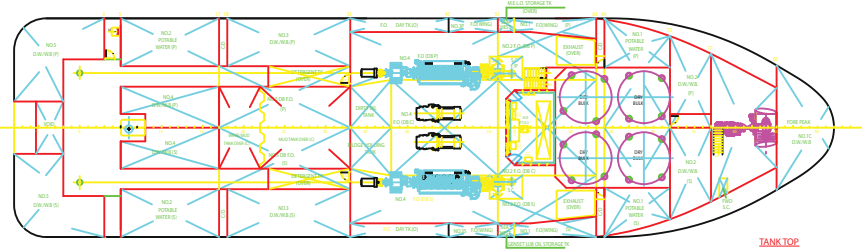
BRIDGE DECK



MAIN DECK



FORECASTLE DECK



TANK TOP



**MARDAKAN**

VESSEL SPECIFICATIONS  
6,000 BHP/81,32 TBR/DPS-1/ Fifi Class 1



**Address:** 2, Neftchilar Avenue, AZ 1003, Baku, Azerbaijan Republic

**Phone:** (+99412) 404 37 00 | **Fax:** (+99412) 404 38 00

**Email:** [projects@asco.az](mailto:projects@asco.az) | **Web:** [www.asco.az](http://www.asco.az)

**Direct Contacts:**

**Phone:** (+99412) 404 37 15; (+99412) 404 37 40