

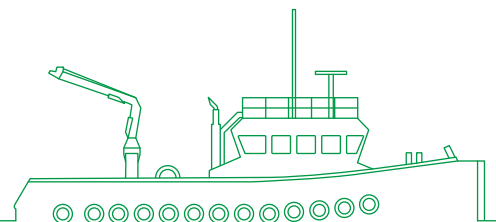


مبارك البحرية  
Mubarak Marine



## Marwan 2 Harbour tug

At 18 m in length, this highly manoeuvrable harbour tug packs a bollard pull of 15 tons, is powered by two Caterpillar marine diesel engines with an output of over 1400 bhp, and has berths for six crew.



## Registration

Year of build	2008
Builder	Dubai Shipbuilding & Engineering
Port of registry	Dubai
Flag	UAE
Official number	5350
Call sign	A6E2751
Class	Bureau Veritas
Class number	10687T
Operator	Mubarak Marine LLC

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## Dimensions

Length overall	18 m
Breadth moulded	6.5 m
Depth moulded	2.6 m
Draft designed	2.2 m

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## Machinery/propulsion

Main engines	2x Caterpillar 3412 TA
Horse power	2x 720 HP @ 1800 rpm
Gears	2x Reintjes WAF 344
First generator	1x CAT C4.4 38 kW, 380V, 3ph, 50hz, engine number 366819 KVA 35.00, 1500 rpm, year 2022, SN-1655729
Second generator	1x Sale diesel model 35 GTC, 28 kW, 400/230V, 3ph+N, 50hz 1500 rpm, year 2022
Propellers	2x solid propeller with key-Kaplan type
Steering	Kobelt Hydraulic

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## Tonnage

GRT	66 t
NRT	20 t
Deadweight	20 t

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## Performance

Speed	11 knots
Bollard pull	15.6 mt

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## Fuel consumption

Towing/full load	953 G
Free running	600 G
Fresh water consumption	0.9 mt

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## Navigation/communication equipment

Magnetic compass	1x CPH-130 MD
Navigation light	1 set
AIS	Class A NSI 180723
GPS	1x Furuno, GP 32
Auto pilot	1x Comnav, Compilot
Radar	1x JRC, JMA 2300
Echo sounder	1x Hondex 4E-881-SN18439
Navtex	JRC-NCR 333
VHF	1x Samyung STR 6000 A, Q4EST-GX12555, 1x Standard Horizon GX1100-E
VHF portable	1x Standard Horizon HX210, 1x Standard Horizon HX3705
FBB	TT 3672A-110912-9

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## Capacities

Fuel oil	23 mt
Fresh water	9 mt

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## Deck equipment

Towing winch	6.5 mt
Towing hook	20 t disc type towing hook with mechanical quick release system
Deck mounted crane	GROVE M977-hydraulic pedestal capacity -2 mt
Windlass	1x electric driven
Chain	1x 14 mm diameter into 165 m
Anchors	1x 140 kg, stockless, anchors spare

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## Firefighting/safety equipment

Life rafts	1x 10 persons
Life buoys	3 nos
Life jackets	9 nos
Fire extinguisher	3x foam, 3x CO <sup>2</sup> , 1x dry powder
EPIRB	SN EB 173904, MN NEB 20006, Class II 406 H2
Radar transponder	SNRT 20261, NRT 1000 SART
PA	SN5322238, AHUJA SSB-45E
SCUBA	2 nos
EEBD	6 nos
Wind clipper	1 no
Fire alarm control panel	1 no

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## Accommodation

Total	1x 4 berths, 1x 2 berths = 6 berths
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BUREAU VERITAS

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### INSPECTION REPORT

**Reference**  
**Name of the Company** : MUBARAK MARINE, DUBAI, UAE  
**Place of Inspection** : DMC, DUBAI ON BOARD VESSEL: MARAN 2  
**Date of Test** : 06.07.2023  
**Date of next Inspection** : 05.07.2024  
**Item Description** : BOLLARD PULL TEST  
**IMO No.** : 0005350

At the request of M/s MUBARAK MARINE, DUBAI, UAE the undersigned surveyor to Bureau Veritas, acting within the general conditions of services of our society which governs such interventions, did attend at ON BOARD: MARAN 2, MUBARAK MARINE JETTY, DMC, DUBAI, U.A.E to inspect the said item as per client request and reports as under:

**Scope** : Witnessing Bollard pull test as per client request  
**Vessel Name** : MARAN 2  
**IMO No.** : 0005350  
**Port of registry** : DUBAI  
**Draft (FWD / AFT)** : FWD:1.8 m / AFT :2.3 m  
**Depth** : 14.0 m  
**Under keel depth** : 12.0 m  
**Length of Tow Line** : 220.0 m  
**Dia. of rope** : 72 mm  
**Max. Wind speed** : 6-8 knots  
**DG Power** : 1 nos x 38 kW  
**Machinery** : Main Engine 2 nos -537 kW (Both 1074 kW)

**Sustained Bollard pull** : 15.46 MT  
**Maximum Bollard pull** : 15.6 MT

**Conclusion:**  
 The bollard pull test was witnessed as per the client request. This report is made without prejudice for the ends and purposes for which it was designed.

**Issued at Dubai on 21.01.2023**

**For BUREAU VERITAS** **Reviewed by**  
   
**Bibin Lal Gopi Leela** **Stamp** **Kiran Govind**  
**Inspector to Bureau Veritas** **Inspector to Bureau Veritas**

**Form No.:** DXB-IVS-015 **Page 1 of 2**

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<b>Start time</b>	<b>11:30 Hrs</b>
<b>RPM</b>	<b>Starboard: 1700 rpm Port Side: 1700 rpm</b>
<b>Temperature</b>	<b>Exhaust Temperature: 480 Deg C Water Temperature: 88 Deg C Turbocharger Temperature : 66 Deg C</b>
<b>Test data</b>	<b>Pull @100% (10 minutes)</b>
<b>0.30</b>	<b>15.4 t</b>
<b>1.00</b>	<b>15.3 t</b>
<b>1.30</b>	<b>15.6 t</b>
<b>2.30</b>	<b>15.4 t</b>
<b>3.00</b>	<b>15.3 t</b>
<b>3.30</b>	<b>15.5 t</b>
<b>4.00</b>	<b>15.6 t</b>
<b>4.30</b>	<b>15.6 t</b>
<b>5.00</b>	<b>15.5 t</b>
<b>5.30</b>	<b>15.4 t</b>

**Load cell calibration Report No.:** 04-C443173 REV0, **Dated:** 01.08.2022  
**(Load cell serial No. : 109333, Capacity: 75 MT)**

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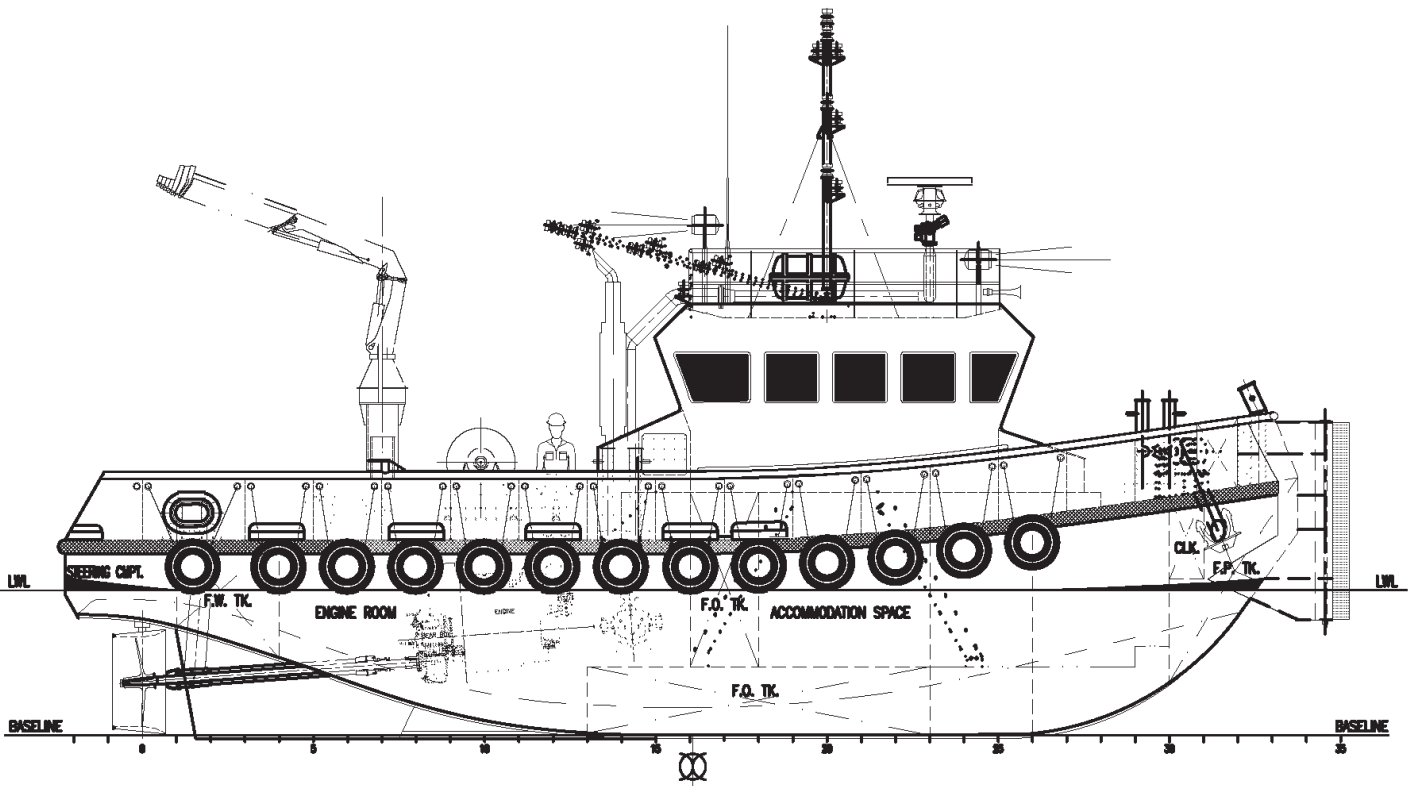
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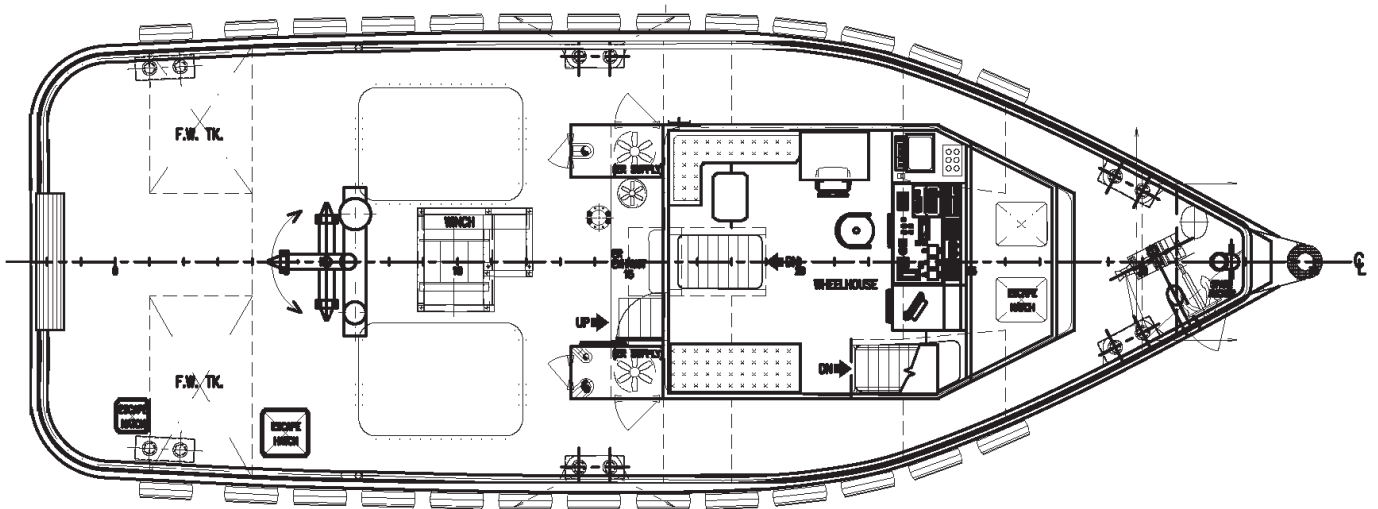
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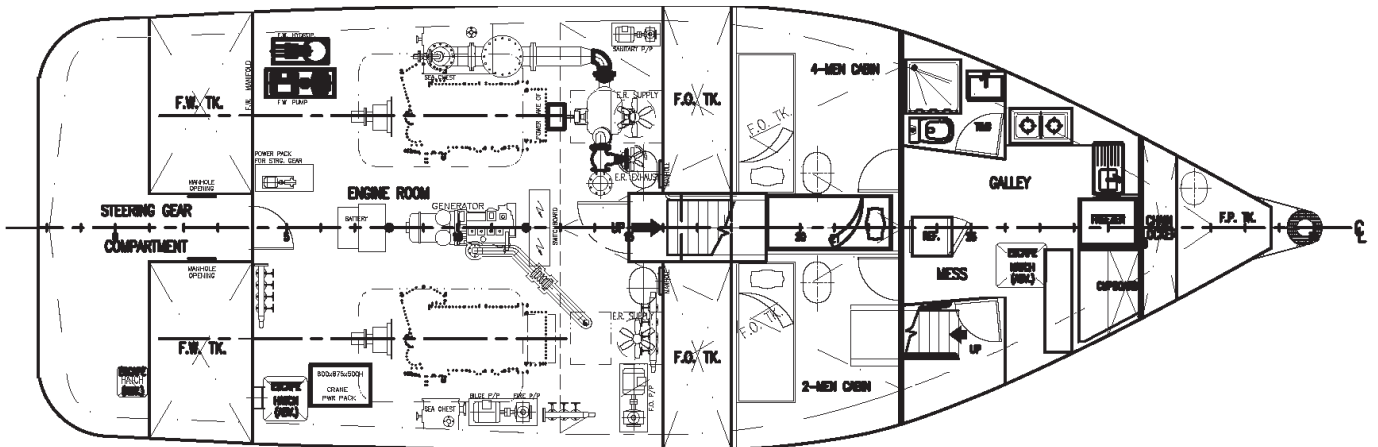
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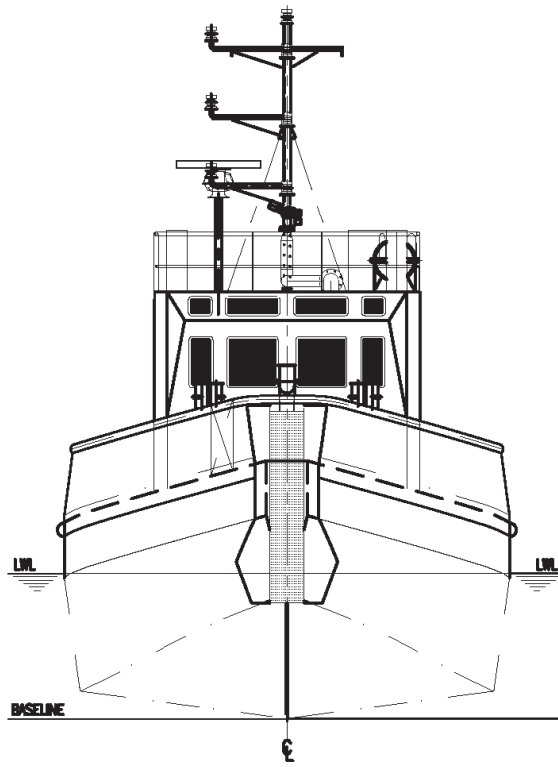
Outboard profile



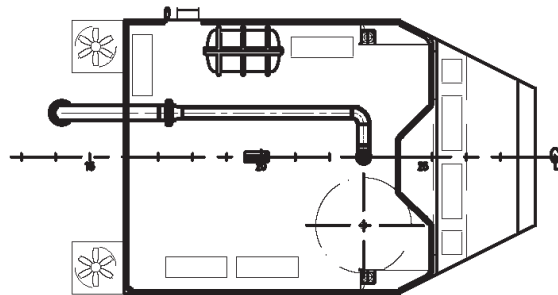
Main deck plan



Below main deck plan



Fore view



Wheelhouse top