

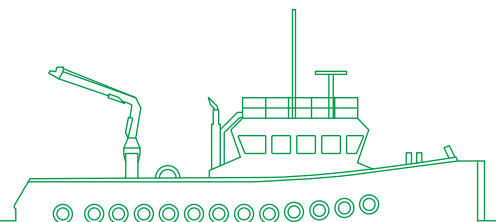


مبارك البحرية
Mubarak Marine



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

Dimensions

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

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

Tonnage

GRT	66 t
NRT	20 t
Deadweight	20 t

Performance

Speed	11 knots
Bollard pull	15.6 mt

Fuel consumption

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

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

Capacities

Fuel oil	23 mt
Fresh water	9 mt

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

Firefighting/safety equipment

Life rafts	1x 10 persons
Life buoys	3 nos
Life jackets	9 nos
Fire extinguisher	3x foam, 3x CO ² , 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

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

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

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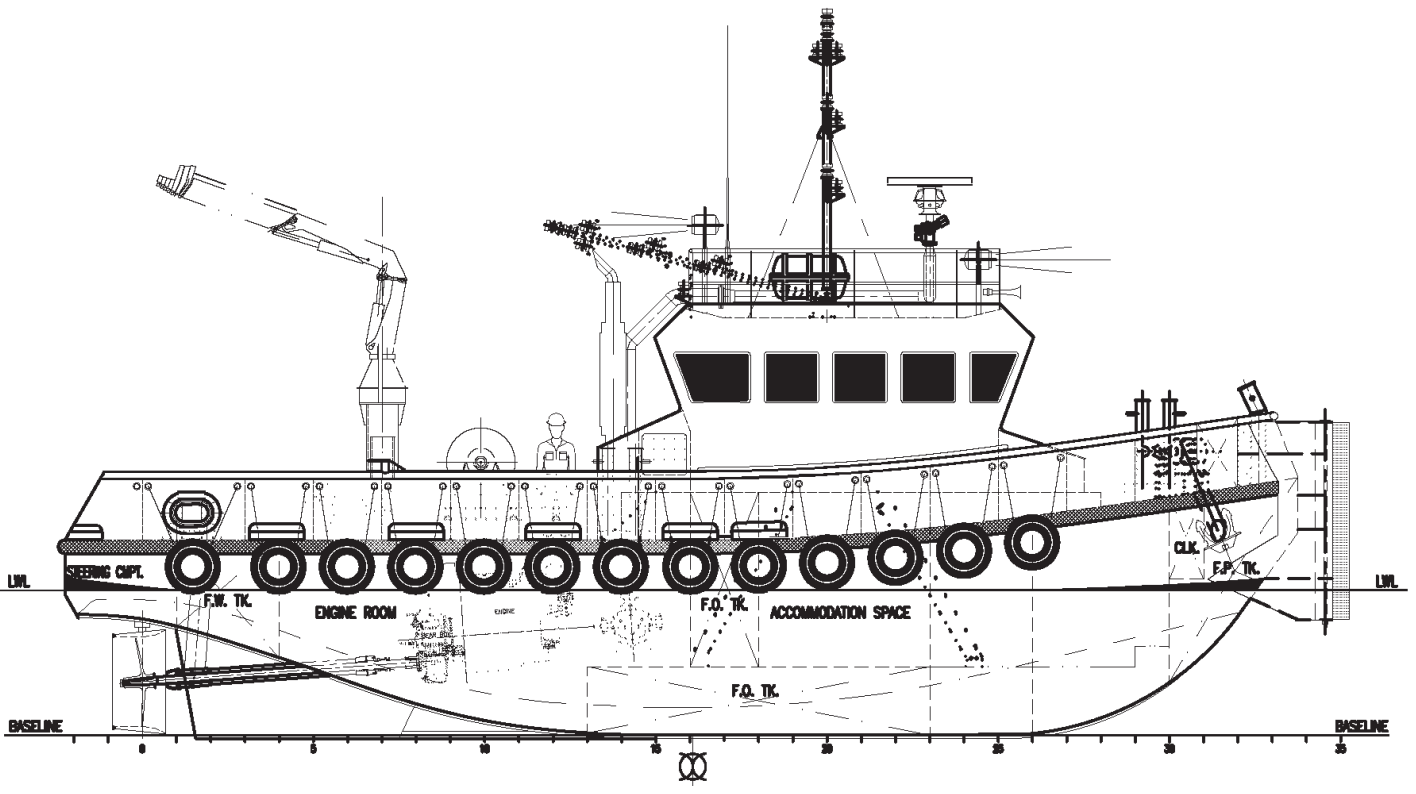
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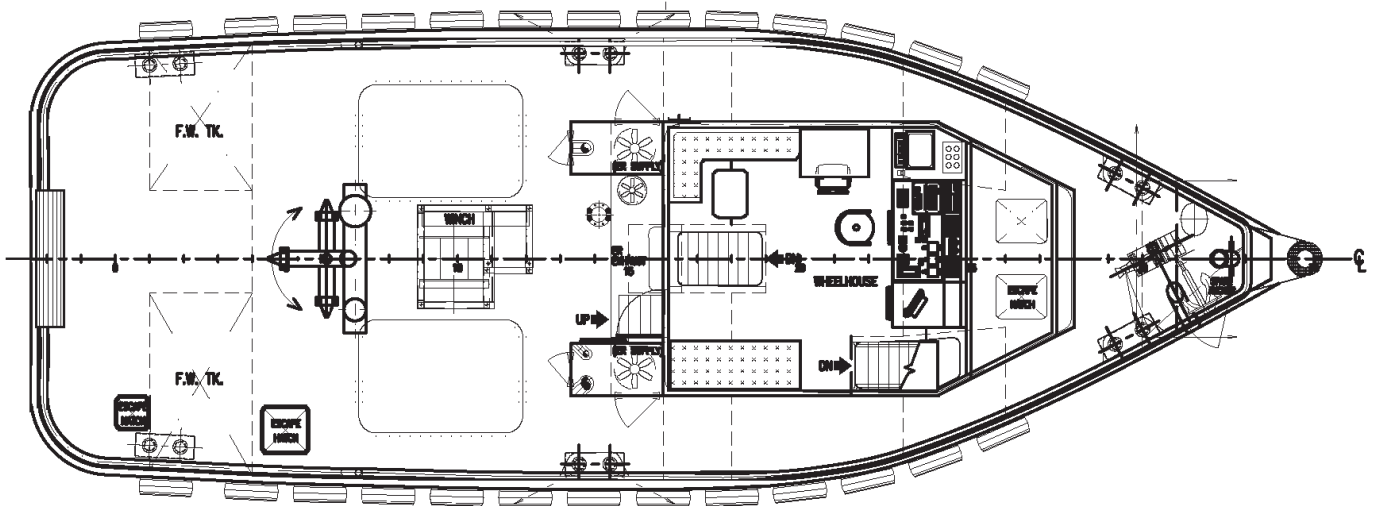
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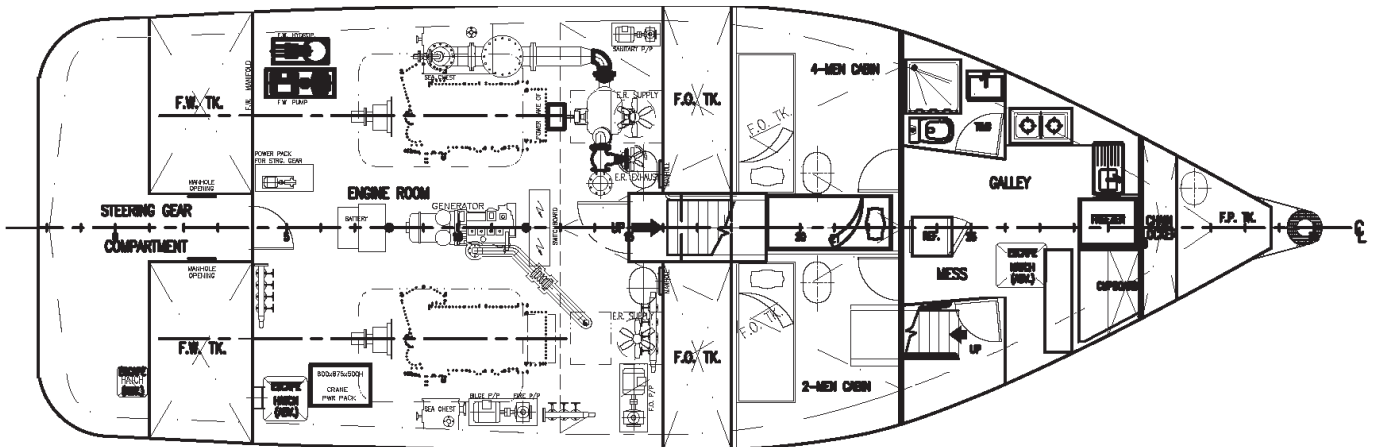
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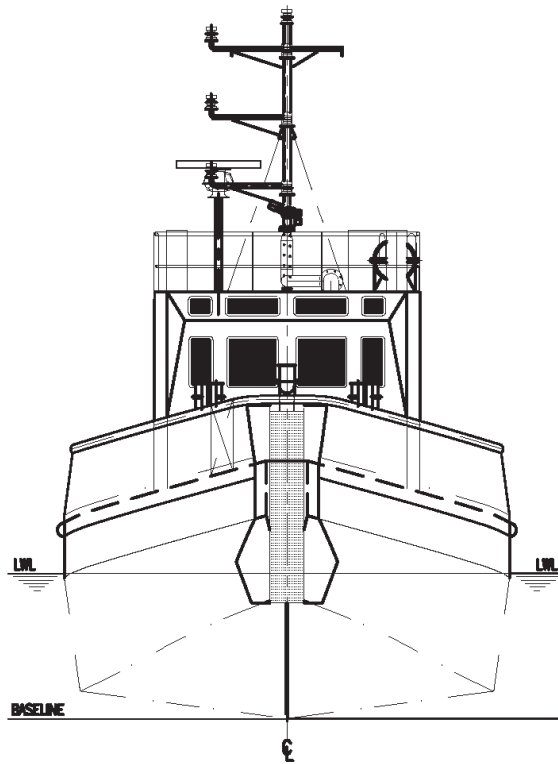
Outboard profile



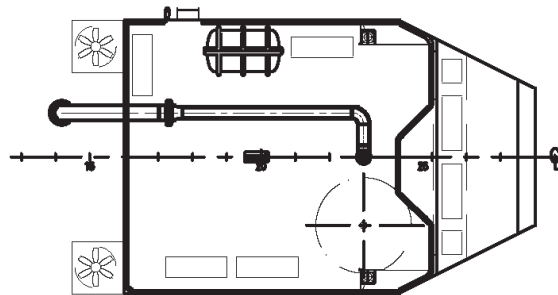
Main deck plan



Below main deck plan



Fore view



Wheelhouse top