

TUG OBAID



Dimension

Length Overall	: 18.00 meters
Breadth Mld.	: 6.50 meters
Depth Mld.	: 2.85 meters
Draft Designed	: 2.20 meters

Tonnage

GRT	: 66.00 metric tons
NRT	: 19.00 metric tons

Machinery / Propulsion

Main Engine	: 2 x Cummins NTA 14M
Horsepower / RPM	: 2 x 500 HP @ 1800 RPM
Generator	: 1 x Caterpillar 3054NA 34 kW, 3ph, 50hz
Steering	: Kobelt
Gearbox / Ratio	: 2 x ZF W350 / 4.962:1
Propellers	: 2 x Fixed pitch @ 5 blades

Capacity

Fuel Oil	: 28.00 metric tons
Fresh Water	: 9.30 metric tons
Sewage Tank	: 1 x 1 M3

Navigation Equipment

Magnetic Compass	:
Auto Pilot	: 1 x Comnav Marine-Canada
Radar	: 1 x JMA – 2343 Japan Range 48 nm
Echo Sounder	: V -6201-Japan-150 m
GPS	: GP 100-Japan

Communication Equipment

VHF	: Sailor RT 5022-Denmark
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Registration

Year Built	: 2006
Owner	: Mubarak Marine
Port / No. of Registry	: Dubai / 07177D
Class	: Bureau Veritas
Official Number	: 5351
Call Sign	: A6E2742
Builder	: Dubai Shipbuilding & Engineering LLC

Deck Equipment

Towing Winch	: 1 x 10 to pull capacity
Towing Hook	: 1 x 10 tons capacity
Deck Crane	: 1 x Knuckle boom / retractable type with lift cap. of 3.5 t @ 4.8m radius
Windlass	: 1 x Electric Driven
Chain	: 1 x 14 mm dia. @ 110 meters

Performance

Speed	: 10.00 knots
Bollard Pull	: 9.50 metric tons
Fuel Consumption	: 2.870 metric tons @ max speed

Safety / Fire Fighting

Life Rafts	: 1 x 6 persons
Life Buoys / Life Jackets	: 3 nos. / 8 nos.
Fire Extinguisher	: 3 foam / 3 dry powder / 1 CO ₂
Fire Main pump	: 1 x 20 m ³ / hr @ 3.5 bar
External Fire Pump	: 1 x 5000 ltrs/min. @ 10 bar
Fire Monitor (water)	: 1 x remote operated 5000 ltrs/min. @ 80 mtrs throw length

Accommodation

Total Berths	: 1 x 4 berths 1 x 2 berths
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Note: All details given in good faith without guarantee subject to change without prior notice.

Mubarak Marine LLC- P.O. Box 7220 Dubai, U.A.E. Date REvised:2-Feb-14

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تقرير REPORT

Our Ref: - DIV280r036

Report No. D.036/NDME/FA
Date: 2nd February 2014

BOLLARD PULL TEST

"OBAID"

2nd February 2014

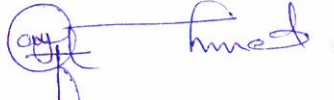
The undersigned representative of this office, acting on behalf of Mubarak Marine LLC, Dubai, attended a bollard pull test of the tug "OBAID" at Hamriya Port, Dubai, UAE, and hereby verifies the continuous static bollard pull to be as stated below.

The test has been conducted under the conditions specified overleaf and carried out in accordance with Noble Denton Guidelines for Bollard Pull Trials. It should be noted that different test conditions may achieve slightly different and possibly increased test results above those stated due to the variation in test conditions from those recommended

Continuous Static Bollard Pull : 9.08 Metric tons
Maximum Bollard Pull : 9.50 Metric tons

This report is intended for the sole use of the person or organization to whom it is addressed and no liability, of any nature whatsoever, shall be assumed to any other party in respect of its contents. As to the addressee, neither the Company nor the undersigned shall (save as provided in the Company's Conditions of Business dated 9th February 2011) be liable for any loss or damage whatsoever suffered by virtue of any act, omission or default (whether arising by negligence or otherwise) by the undersigned, the Company or any of its servants.

NOBLE DENTON MIDDLE EAST (DUBAI) LTD



Capt. Fayyaz Ahmed - Surveyor



BOLLARD PULL TEST REPORT

W.S. No.

DIV280

VESSEL DATA		LOCATION DATA		GUIDELINE	TEST DATA
Name:	Obaid	Test Location	Hamriyah Port		Berth No.49
Registry:	Dubai, UAE	Tug Stern to Shore	300m		200m
Power:	960 BHP	Clear Radius	300m		300m
Length:	17.50M	Water Depth	20m		9.0m
Beam:	6.50M	Max. Wind Speed	5.0m/s		2.0 m/s
Draft (F):	2.00M	Max. Current	0.5m/s		Nil
Draft (A):	2.40M	SeaWaves	Nil		Nil
Trim:	0.40M	Swell Waves	Nil		Nil
Towline Dia:	200M x 100mm PP Rope	Towline Angle	Horizontal		Horizontal

LOADCELL TYPE	DATE LAST CALIBRATED		
T24-HS / Serier no. 2050-748T24 / SWL 50 MT	10.10.2013 SCOTLAND Load Measurement		
TEST DATA	100% (10min)	100% (10min)	110% (5 min)

Start:	10:10		
RPM /Fixed (P):	1800rpm		
RPM /Fixed (S):	1800rpm		
Exhaust Temp. (Port Outer)	452 Deg.C		
Exhaust Temp. (Stbd Outer)	452 Deg.C		

TIME	Metric Tons	Metric Tons	
0:00	9.00		
0:30	9.00		
1:00	9.10		
1:30	9.20		
2:00	9.00		
2:30	9.00		
3:00	9.50		
3:30	9.40		
4:00	9.30		
4:30	9.10		
5:00	9.00		
5:30	9.00		
6:00	9.00		
6:30	9.00		
7:00	9.00		
7:30	9.00		
8:00	9.00		
8:30	9.00		
9:00	9.00		
9:30	9.00		
10:00	9.00		
Mean	9.08		
Maximum	9.50		

Mean Bollard Pull

9.08	Metric Tons Short Tons
10.00	

Surveyor Captain Fayyaz Ahmed

Date 2nd February 2014

