

# MV TAHA ASSAFA – 10,880 BHP ANCHOR HANDLING / TUG/ SUPPLY – DP 2

## PRINCIPAL PARTICULARS

Port Of Registry : Port Kelang  
 Call Sign : 9 MLK 5  
 Official No. : 334256  
 Year Built : 2010  
 Class : ABS  
 Notation : Hull \* A1E "AH, Towing Vessel, Fire Fighting Vessel Class 1, Offshore Support Vessel" \* AMS \* DPS-2  
 Type : Anchor Handling Tug Supply Vessel  
 IMO No. : 9565857  
 Hull No. : SK 109  
 Flag : Malaysia  
 Owner : TH Marine Sdn. Bhd.  
 Operator : Alam Maritim (M) Sdn Bhd / TH Alam Management (M) Sdn. Bhd.



## DIMENSION

Length Overall : 70.70 m Length Waterline : 66.80 m  
 Length Between : 63.00 m Breadth Moulded : 16.00 m  
 Perpendicular : Depth Moulded : 7.20 m  
 Max. Draft Moulded : 6.10 m  
 GRT : 2534 MT NRT : 760 MT  
 Deadweight : 2362.09 MT

## PERFORMANCE

Trial speed : 14.0 knots  
 Type of fuel : Marine Gas Oil

## CARGO CAPACITIES

Deck Cargo : 800 MT Deck Strength : 5.5 MT/m<sup>2</sup>  
 Clear Deck Area : 412 m<sup>2</sup>  
 Fuel Oil : 969.8 m<sup>3</sup> FW/DW/WB : 600.7 m<sup>3</sup>  
 Portable Water : 682 m<sup>3</sup> Mud/Brine/DW : 524.8 m<sup>3</sup>  
 Freezer : 15m<sup>3</sup> (-18°C) Chiller : 16m<sup>3</sup> (+4°C)

## DP2 DYNAMIC POSITIONING SYSTEM

DP System : Dynamic Positioning 2 [Converteam]  
 Basic Hardware : 2 x ADP work station  
 2 x ADP controller cabinet  
 1 x Portable joystick unit  
 3 x Portable joystick docking station  
 Reference System : 3 x Gyrocompass  
 2 x VRU  
 3 x Wind sensors  
 1 x Laser positioning system  
 2 x DGPS

## PROPULSION SYSTEM

Main Engine : 2 x 5,440 BHP, 750 rpm, [Rolls Royce]  
 Main Generator : 2 x 590 kW / 440V / 3PH/ 6 0Hz, [Caterpillar]  
 Shaft Generator : 2 x 1730 kW / 440V / 3PH 60 Hz [Cummins]  
 Emergency Generator : 1 x 99 kW / 440V / 3PH / 60Hz, [Caterpillar]  
 Bow Thruster : 1 x 11.0 tons CPP Kamewa Ulstein [Rolls Royce]  
 : 1 x 13.5 tons FPP Ulstein Aquamaster Azimuth thruster [ Rolls Royce ]  
 Stern Thruster : 1 x 11.0 tons CPP Kamewa Ulstein [Rolls Royce]  
 Steering Gear : 1 set Tenfjord [ Rolls Royce]  
 Propulsion : 2 x CPP Kamewa Ulstein [ Rolls Royce]  
 Rudders : 2 x Becker Rudder [ Rolls Royce]

## DECK EQUIPMENT

Windlass : 1 x 10 tons @ 18 m/min for 46mm dia  
 Anchor : 2 x 1920 kg AC – 14 HPP Anchor  
 Anchor Chain : 46mm dia with 825m total length  
 Capstan : 2 x 10 MT @ 25 m/min  
 Tugger Winch : 2 x 15 MT @ 21 m/min  
 Deck Crane : 1 x 5.0 tons @ 15 m hydraulic telescopic crane

## FIRE FIGHTING EQUIPMENT

### External

FIFI : Fire Fighting Class 1  
 Fire pump : 2 x 1751 m<sup>3</sup>/hr @ 121 m Head  
 Fire monitor : 2 x 1200 m<sup>3</sup>/hr @ 12 bar  
 Emergency fire pump : 1 x 45m<sup>3</sup>/hr @ 65 m Head

### Internal

Fixed System in E/R: CO2 and Local water mist  
 Fire Detection : All living space and Engine Room  
 System

## OTHERS

Rescue Zone : Port & Stbd Main deck

## TOWING & ANCHOR HANDLING EQUIPMENT

Bollard Pull : 131.7 MT  
 Tow/ AH Winch : 1x Brattvaag waterfall type,  
 Tow drum : 1 x 900mm Ø x 2,650mm Ø x 2,100mm suitable for  
 1,700 m x 76 mm Ø SWR  
 Anchor Handling : 2 x 900 mm Ø x 2500mm Ø x 1,800 mm  
 Drum : suitable for 1,200m x 76 mm Ø SWR  
 Braking Capacity : 450 MT  
 Stern Roller : 2.5 m Ø x 5.0 m length, SWL 500 MT  
 Karm Fork : 2 x Rolls Royce 2 x Karmfork with 500 MT SWL  
 Tow Pins : 4 x vertical-hyd 500 MT/600mm

## DISCHARGE RATES

Fuel Oil : 2 x 150 m<sup>3</sup>/ hr @ 90 m head  
 Fresh Water : 2 x 150 m<sup>3</sup>/ hr @ 90 m head  
 Mud Pump : 2 x 75 m<sup>3</sup>/ hr @ 90 m head  
 Drill Water Pump : 1 x 150 m<sup>3</sup>/ hr @ 90 m head  
 Bulk cement : 20 m<sup>3</sup>/min @ 80 m head

## NAVIGATIONAL /COMMUNICATION

GMDSS : Sea Area A1 + A2 + A3  
 SART : 2 x McMurdo  
 SSB : 1 x Furuno  
 Inmarsat C : 2 x Furuno  
 Satellite EPIRB : 1 x Mc-Murdo  
 Portable VHF Radio : 3 x Mc-Murdo  
 Navtex Receiver : 1 x Furuno  
 Radars : 2 x Furuno  
 Echo Sounder : 1 x Furuno  
 GPS : 1 x Furuno  
 Gyrocompass : 3 x Anschutz  
 Autopilot : 1 x Anschutz  
 Speed Log : 1 x Furuno  
 Magnetic Compass : 1 x Anschutz  
 DGPS : 1 unit

## ACCOMMODATIONS

Berths : 4 x 1 berth cabin = 4  
 10 x 2 berth cabin = 20  
 4 x 4 berth cabins = 16  
 Total : 40  
 Hospital : 1 x 2 berth cabin  
 All cabins are fully air-conditioned

## LIFE SAVING APPLIANCE

Search Lights : 4 x 2000 W  
 Floodlights : 8 x 1000 W  
 Liferrafts : 6 x 20 men  
 Lifebuoys : 4 pcs with buoy lights  
 4 pcs with line  
 2 pcs with light and smoke(MOB)marker  
 Workvest : 6 pcs  
 Rescue boat : 1 x 10 men aluminium alloy hull c/w 163kW water jet diesel engine

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

