



**DESB MARINE SERVICES SDN BHD**

**PROVIDING SERVICES TO THE MARINE/  
OFFSHORE INDUSTRIES**

## M.V DAYANG MUTIARA

**80.40M MAINTENANCE/WORK VESSEL**

### TECHNICAL SPECIFICATION

#### PRINCIPLE PARTICULARS

Port of Registry	: Kuching
Flag	: Malaysia Flag
Call Sign	: 9WLJ4
Official No.	: 333396
Year Built	: 2012
IMO No.	: 9622863
Owner	: DESB Marine Services Sdn. Bhd.
Classification	: American Bureau Of Shipping (ABS)
Notation	: ✱ A1 { ✱ AMS, Offshore Support Vessel, + CRC Special Purpose Ship (SPS) Code 2008

#### PRINCIPLE DIMENSION

Length Overall	: 80.40 m
Length W.L.	: 77.60 m
Beam MDL	: 22.00 m
Depth MDL	: 7.00 m
Draft (Designed)	: 5.30 m
GRT / NRT	: 5089 / 1526
Deadweight	: 3528.10 MT at 5.3m draft

#### PERFORMANCE

Speed	: 12 knots @ 100% MCR @ 4.0m mean draft
Type of fuel	: Marine Gas Oil

#### CARGO DECK CAPACITY

Clear Deck Space	: 700 m <sup>2</sup>
Deck Strength	: 10 MT/m <sup>2</sup>
Deck Cargo	: 800 MT

#### TANK CAPACITY

Portable Water	: 1042 m <sup>3</sup>
Fuel Oil	: 916 m <sup>3</sup>
S.W.B./F.W	: 2,600 m <sup>3</sup>
Brine	: 280 m <sup>3</sup>
Grey Water	: 30 m <sup>3</sup>
Sewage Holding Tank	: 30 m <sup>3</sup>
Bilge Holding Tank	: 20 m <sup>3</sup>
Dirty Oil Tank	: 20 m <sup>3</sup>
Lub. Oil Storage Tank	: 15 m <sup>3</sup>
Hydraulic Oil St. Tank	: 16 m <sup>3</sup>
Chiller	: 40m <sup>3</sup>
Freezer	: 40m <sup>3</sup>

#### DECK MACHINERY

4-Point Mooring	: Single drum hydraulic winch c/w auto spooling gear and remote control in wheelhouse 50 MT pull at 1 <sup>st</sup> layer (low speed) 120 MT brake holding at 1 <sup>st</sup> layer CCTV, Tension & Length Measuring System 4 x 5000 kg Delta Flipper Anchors
Anchor Wire	: 44mm dia. x 1200m wire rope
Capstan	: 2 x 5 MT @ 0~15 m/min
Stern Bolland	: 2 x 90 MT SWL
Pedestal Deck Crane	: 1 x 45 MT SWL @ 16 m radius (SWH-0.5 m) @ 41.2m length lattice boom and comply with API 2C 6 <sup>th</sup> Edition c/w calibrated SLI, safety Cut-out devices and certified for Personal Lift. 1 x 7.0 MT SWL @ all radius for Auxiliary hoist.

#### PROPULSION SYSTEM

Main Engine	: 2 x CATERPILLAR 3512B-HD @ 2012 BHP
Propeller	: 2 x 2100 Mg. Bronze F.P. Propeller
Steering Gear	: 12 MT Electro-Hydraulic Type
Rudder Type	: High Lift Rudder
Bow Thruster	: 1 x KAWA FPP, 660kW Electric Motor Driven @ 10 Tons

#### POWER PLANT

Main Generator	: 3 x CATERPILLAR C32 590 ekW, 415V / 3-Ph / 50 Hz (each)
Emergency Generator	: 1 x CUMMINS NTA855-D(M) 245 ekW, 415V / 3-Ph / 50 Hz
Platform Supply	: 2 x 80 ekW, 415V/3PH/50Hz, 4-wires

#### COMMUNICATION & NAVIGATION EQUIPMENT

Communication System	: GMDSS – Area A1 to A3, PA/Talkback System and Sound Powered telephone system
Navigation Aids	: Gyro Compass, 2 x Radar, Echo Sounder, SART, EPIRB, Auto Pilot, DGPS, Speed Log, AIS, SSAS, Anemometer & Anemoscope, VDR, Navtex Receiver

#### ACCOMMODATION SPACES

Fully Air-Conditioned for all accommodation spaces

Main Deck	: 1 man	
Lower Forecastle Deck	: 92 men	
Upper Forecastle Deck	: 80 men	
Captain's Deck	: 26 men	
Total	: 199 men	
5 x Offices	1 x Dark Room	1 x Prayer Room
1 x Hospital	1 x Recreation Room	1 x Conference Room
1 x E&I Workshop	1 x Laundry Room	1 x Gym Room
1 x Welding W/shop	1 x Paint Store	1 x General Store

#### FIRE FIGHTING EQUIPMENT

##### External

External Fire Pump	: 1 x Diesel engine driven SW pump, with capacity of 300 m <sup>3</sup> /hr @ 10~12 bar
Fire Monitor	: 2 x 150 m <sup>3</sup> /hr @ 12 bar (inlet pressure)

##### Internal

Water Sprinkler System	: Accommodation Spaces & Paint store
CO <sup>2</sup> System	: Engine Room, Forward Machinery Space and Bow thruster Compartment
Water Mist System	: As per SOLAS/Class Requirements

#### LIFE SAVING APPLIANCES

Life Boat	: 2 x 75 men (as per SOLAS requirements)
Liferaft	: 10 x 25-men (as per SOLAS requirements)
Rescue Boat	: 1 x 6-men Rigid type c/w davit
Lifebuoy	: 16 pieces
Life Jacket	: 433 pieces

#### DISCHARGE RATE

Fuel Oil Pump	: 1 x 60m <sup>3</sup> /hr @ 57m Total Head
Fresh Water Pump	: 1 x 60m <sup>3</sup> /hr @ 50m Total Head

#### OTHER FEATURES

Anti-Rolling System	: FLUME Passive Stabilization System
RO Water Maker	: 2 x 50 T/day
IMDG Compliance	: Whole main deck area.

**Particulars given in good faith and are believe to be correct but not guaranteed at the time of printing**