

MV JM CEKAL

Anchor Handling Tug Supply Vessel
72.8 M 10,880 BHP 157.6 MT Bollard Pull DP2



PRINCIPAL PARTICULARS

| | |
|--------------------|-------------------------|
| Length Overall | : 72.80 m |
| Length W.L | : 63.80 m |
| Breadth Molded | : 18.20 m |
| Depth Molded | : 7.50 m |
| Draft Molded | : 5.50 m |
| Class | : Bureau Veritas |
| Flag/Port Registry | : Malaysian/Port Klang |
| Year Built | : 2015 |
| IMO No. | : 9728588 |
| Hull No. | : 20105 |
| GRT/NRT | : 3232 MT / 949 MT |
| Place of Built | : Muhiibbah Marine Eng. |

PERFORMANCE

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| Performance Speed | : 13 knots |
| Economical Speed | : 10 knots |
| Endurance | : Approx 22 days |

CARGO CAPACITIES

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| Deck Strength | : 7mt/m ² |
| Cargo Deck Area | : Approx. 600 m ² |
| Fuel Oil Tank | : 870.0 m ³ |
| Drill Water | : 1190.0 m ³ |
| Potable Water | : 480.0 m ³ |
| Liquid Mud / Brine Tank | : 540.0 m ³ |
| Base Oil Tank | : 230.0 m ³ |
| Foam Tank | : 20.00 m ³ |
| Dispersant Tank | : 20.00 m ³ |
| Dry Bulk | : 230.0 m ³ / 4Tanks |

DISCHARGE RATES

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|------------------------|---|
| Fuel Oil Cargo Pump | : 2 x 100 m ³ /Hr @ 90m head |
| Fresh Water Cargo Pump | : 1 x 100 m ³ /Hr @ 90m head |
| Drill Water Cargo Pump | : 1 x 100 m ³ /Hr @ 90m head |
| Liquid Mud/Brine Pump | : 2 x 100 m ³ /Hr @ 90m head |
| Base Oil Cargo Pump | : 1 x 100 m ³ /Hr @ 90m head |

PROPULSION SYSTEM

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| Main Engines | : 2 x 5440 BHP [10,880 BHP] MAK Marine Propulsion Engines Model: 8M52C |
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| Bow Thruster | : 2 x 12T |
| Stern Thrusters | : 2 x 10T |
| Propellers | : 2 x CPP, Berg BCP 950 |
| Shaft Alternator | : 2 x 1760 kW, 415/3 phase/50Hz Leroy Somer |

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| Auxiliary Generator | : 2 x 450 kW, 415/3 phase/50Hz CAT C18 |
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| Emergency Generator | : 1 x 80 kW, 415/3 phase/50Hz CAT 4.4 |
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FIRE FIGHTING EQUIPMENT (FIFI Class I)

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| External | |
| Fire Pump | : 2 x 1500 m ³ /hr at 1.4 Mpa each @ 1800 rpm |
| Fire Monitor | : 2 monitors (water & foam, manual and remote control) |
| Oil Dispersant Boom | : 1 set |
| Internal | |
| CO2 system in engine room | : Fitted |

TOWING / ANCHOR HANDLING EQUIPMENT

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| Bollard Pull | : Average 157.6 MT, Max. 166.6 MT |
| Towing Winch | : 1 x Hydraulic Double Drums(water/hull configuration Brake holding: 450 Ton @ 1st layer,Brattvaag |
| Tow Drum Wire Capacity | : 2000 m x 76 mm diameter |
| Work Drum Capacity | : 2000 m x 76 mm diameter |
| Stern Roller | : Approx. 2.2m dia x 7m length, SWL 450 tons |
| Karm Fork | : 2 sets SWL 300 tons |
| Towing Pins | : 2 sets SWL 300 tons |
| Storage Reel | : 1 x 7.0 ton @ 0.58 m/min |
| Local/Remote control | : from wheelhouse |

DYNAMIC POSITIONING 2 SYSTEM

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| Maker | : Kongsberg |
| Main Switchboard | : Designed as such the power available for position keeping is sufficient to maintain the vessel in position even after worst case failure |

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| Control Mode | : Manual Control - Single ever for each thruster, independent joystick - Combined joystick, DP Control computers- 2 units |
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| Sensors UPS | : 1 x (5) Gyro compass 2 sets |
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DECK EQUIPMENT

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| Capstan | : 2 x 10T @ 22 m/min |
| Tugger Winch | : 2 x 17 ton @ 23 m/min |
| Anchor Windlass | : 11.4T @ 0-16 m/min |
| Deck Crane | : 5.0T @ 15.0m |

ACCOMMODATIONS

| | |
|---------------------------------|-----------------------|
| Crew + Passengers | : Total 50 berth |
| All cabin fully air-conditioned | |
| Walk-in freezer space | : 10.0 m ³ |
| Walk-in Chiller | : 12.0 m ³ |

RADIO & NAVIGATION EQUIPMENTS

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|-------------------|---|
| Radiotelephone | : 1 x JRC MF/HF with DSC Terminal |
| Radar | : 2 x GME marine VHF Radio Telephone |
| Radar Transponder | : 2 x JRC (X-Band & S-Band) c/w ATA |
| Echo Sounder | : 2 x ACR (SART) |
| Gyro Compass | : 1 x JRC Echo Sounder |
| Magnetic Compass | : 1 x [S] Anschutz Magnetic Triple Gyro-Compass |
| GMDSS | : 1 x MK2000 (reflector Type) 2 x JRC (Marine VHF Transceiver) |
| GMDSS (Portable) | : 3 x ENTEL (Walkie-Talkie) |
| Speed Log | : 1 x JRC (Doppler Speed Log) |
| Auto Pilot | : 1 x Anschutz Nautopilot Autopilot |
| Naxtes Receiver | : 1 x JRC |
| GPS Navigator | : 1 x JRC GPS navigator with repeater |
| AIS | : 1 x JRC |
| Inmarsat C | : 1 x JRC (LRIT) |
| Others | : 1 x JRC (SSAS) 2 x Anemometer 1 x GME EPIRB |

LIFE SAVING & H.S.E. EQUIPMENTS

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| Search Lights | : 2 x 2000W |
| Floodlights | : 6 x 1000W & 2 x 500W (Aft Main Deck) |
| Life Jackets | : 50 + 6 (Cosalt) |
| Life Rafts | : 6 x 25 man (Fujikura) |
| Lifebuoys | : 9 sets (Eval) |
| Firemen Suits | : 6 |
| Scrambling Net | : 2 pcs (2M x 4M) |
| Rescue Boat | : 1 x 6 men GRP rescue,60HP |
| Stowing Davit | : As per SOLAS requirement |

OTHERS

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|---------------|--|
| Reefer points | : 8 x 32 amp. 415V/3/50Hz 4 x 16 amp. 230V/1/50Hz |
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JM CEKAL GENERAL ARRANGEMENT PLAN

