

# ME LION



DP1 AHTS/ FIFI 1/ 5,150 BHP/

## FEATURES

- 1) For Worldwide Operations to Service and Tow Drilling Units;
- 2) To Provide Logistics Support for Oil & Gas Production Platforms;
- 3) With Special Equipments for Fire-Fighting, Safety Standby Operations, Emergency Evacuations and Seismic Services.

## CLASSIFICATION

American Bureau of Shipping  
✠A1, Towing Vessel, Fire Fighting Vessel Class 1, Offshore Support Vessel, (E),  
✠AMS, ✠DPS-1  
Builder Jinlong Shipbuilding Co., Ltd, Chongqing  
Year Built 2010  
Flag Marshall Island

## MEASUREMENT

|                  |        |
|------------------|--------|
| Length Overall   | 59.3 m |
| Length BP        | 52.2 m |
| Breadth Moulded  | 15.0 m |
| Depth Moulded    | 6.1 m  |
| Draft (Designed) | 5.0 m  |

## SPECIFICATIONS

|                   |                          |
|-------------------|--------------------------|
| » Length          | 59.3 m                   |
| » Breadth         | 15.0 m                   |
| » Propulsion      | 5,150 BHP                |
| » Deck Area       | 340.0 m <sup>2</sup>     |
| » H2S Scavenger   | 186.9 m <sup>2</sup>     |
| » Bollard Pull    | 70 T                     |
| » AH/Towing Winch | 150 T Pull / 200 T Brake |
| » Accommodation   | 42 men                   |

## DECK EQUIPMENT

|                 |  |
|-----------------|--|
| Anchor Windlass | 1 x 9 T, MEP System                      |
| Anchor Chain    | 2 x 220 m x 38 mm (Ø)                    |
| Anchor (Bow)    | 2 x 1,305 kg High Holding Power Anchors  |
| Tugger Winch    | 2 x 10 T @ 15 m/min, MEP System          |
| Capstan         | 2 x 5 T @ 15 m/min, MEP System           |
| Deck Crane      | 1 x Zhenjiang WME-FC3090, SWL: 3 T @ 9 m |

## TOWING & ANCHOR HANDLING EQUIPMENT

|          |   |
|----------|---|
| AH Winch | 200 T Brake, 150 T Pull<br>MEP System Double Drum Hydraulic Driven, |
|----------|---|

## TONNAGE

|            |         |
|------------|---------|
| Deadweight | 1,390 T |
| GRT        | 1,678 T |
| NRT        | 503 T   |

## MANEUVERING & PROPULSION SYSTEM

|              |                               |
|--------------|-------------------------------|
| Main Engine  | 2 x CAT 3516B, 2,575 BHP each |
| Total BHP    | 5,150 BHP                     |
| Propeller    | 2 x CPP, BERG BCP690          |
| Bow Thruster | 1 x 390 kW, 6.0 T Thrust      |
| Bollard Pull | 70 T @ 100% MCR               |

## DYNAMIC POSITIONING SYSTEM

|             |                      |
|-------------|----------------------|
| DP-1 System | Kongsberg K-Pos DP11 |
|-------------|----------------------|

## ELECTRIC POWER GENERATION

|                     |  |
|---------------------|--|
| Main Generator      | 3 x CAT C18 rated 350kW/ 415V/ 50Hz/ 3Ph |
| Emergency Generator | 1 x Perkins rated 56kW/ 415V/ 50Hz/ 3Ph  |

## CARGO DECK

|                                    |                      |
|------------------------------------|----------------------|
| Deck Area 340.0 m <sup>2</sup>     | Kongsberg K-Pos DP11 |
| Deck Strength 7.5 T/m <sup>2</sup> |                      |
| Deck Cargo Capacity 500 T          |                      |

## DISCHARGE CAPACITY

|                            |  |
|----------------------------|--|
| Fuel Oil                   | 1 x 150 m <sup>3</sup> /hr @ 75 m head |
| Potable Water              | 1 x 100 m <sup>3</sup> /hr @ 75 m head |
| Drill Water                | 1 x 100 m <sup>3</sup> /hr @ 75 m head |
| Liquid Mud/ Base Oil/Brine | 2 x 75 m <sup>3</sup> /hr @ 75 m head  |
| H2S Scavenger              | 1 x 70 m <sup>3</sup> /hr              |

## FIRE FIGHTING & ANTI POLLUTION EQUIPMENT

*FIFI Class (1) with Water Spray*

|                        |  |
|------------------------|--|
| Pump                   | 2 x 1,500 m <sup>3</sup> /hr @ 14 bar                          |
| Monitor (water / foam) | 2 x 1,200 m <sup>3</sup> /hr / 300 m <sup>3</sup> /hr @ 12 bar |
| Oil Dispersant System  | 2 x 6 m Spray Boom   |

## SAFETY EQUIPMENT

|             |  |
|-------------|--|
| Life Raft   | 6 x 25 persons, SOLAS Approved                                 |
| Rescue Boat | 1 x 6 persons, Jiangyin Wolong FRP Boat, JY45KR, Mercury 25 HP |
| Davit       | Zhenjiang WME, WME-SAD14, SWL: 1.35 T                          |

## MISCELLANEOUS

|                      |  |
|----------------------|--|
| Oily Water Separator | 1 x FORWIN, ZYFM(NJ)-1, 1.0 m <sup>3</sup> /hr               |
| Sewage Treatment     | 1 x 50 persons, Jiangsu WCB-50                               |
| Water Maker          | 1 x 5 T/day, PETER TABOADA, SW-Y 30/52, Reverse Osmosis Type |

|                            |   |
|----------------------------|---|
| Drum Capacity              | Waterfall Type<br>1,000 m x 56 mm (Ø)   |
| Towing Winch               | 200 T Brake, 150 T Pull<br>MEP System Double Drum Hydraulic Driven,<br>Waterfall Type |
| Drum Capacity              | 1,000 m x 56 mm (Ø)   |
| Storage Reel Drum Capacity | 1,000 m x 56 mm (Ø)   |
| Shark Jaw / Karm Fork      | 1 x Shark Jaw, SWL: 200 T   |
| Tow Pin                    | 2 x Tow Pin, SWL: 200 T   |
| Stern Roller               | 5.0 m x 1.6 m (Ø), SWL: 200 T   |

## STORAGE CAPACITY

|                           |   |
|---------------------------|---|
| Fuel Oil                  | 540.0 m <sup>3</sup>                              |
| Potable Water             | 360.0 m <sup>3</sup>                              |
| Drill Water/SWB           | 400.0 m <sup>3</sup>                              |
| Liquid Mud/Base Oil/Brine | 400.0 m <sup>3</sup> (4 Tanks)                    |
| H2S Scavenger             | 186.9 m <sup>3</sup> (4 x 1,650 ft <sup>3</sup> ) |
| Foam / Detergent          | 13.0 m <sup>3</sup> / 13.0 m <sup>3</sup>         |

## ACCOMMODATION

|               |                                     |
|---------------|-------------------------------------|
| Berth / Cabin | 4 x 1 man<br>3 x 2 men<br>8 x 4 men |
| Total         | 42 men                              |

## NAVIGATION AND COMMUNICATION EQUIPMENT

|                    |  |
|--------------------|--|
| GMDSS (Area 3)     | Furuno RC-1500T 1T                           |
| VHF DSC            | 2 x Furuno FM-8800S                          |
| MF/HF SSB          | 1 x Furuno FS-2571C                          |
| MF/HF DSC          | 1 x Furuno FS-2571C                          |
| EPIRB              | 1 x McMurdo E5                               |
| SART               | 2 x McMurdo S4                               |
| Navtex Receiver    | 1 x Furuno NX-700B                           |
| Portable GMDSS VHF | 3 x Samyung STV-160                          |
| Inmarsat           | 2 x Furuno Felcom 15                         |
| Radar              | 1 x Furuno FR-1510 Mk3<br>1 x Furuno FR-2117 |
| Gyrocompass        | 1 x Raytheon Anschutz STD22                  |
| Magnetic Compass   | 2 x Cassens & Plath Reflecta 1               |
| Auto Pilot         | 1 x Raytheon Anschutz PilotStar D            |
| DGPS               | 1 x Furuno GP-150                            |
| Joystick           | Kongsberg cJoy Fitted                        |
| Echo Sounder       | 1 x Furuno FE-700                            |
| Speed Log          | 1 x Furuno DS-80                             |
| Anemometer         | 1 x Raymarine ST60+                          |
| Weather Fax        | 1 x Furuno FAX-408                           |
| AIS                | 1 x Furuno FA-150                            |