

Lewek Emerald

AHTS / FIFI 1 / 11,000 BHP / DP1

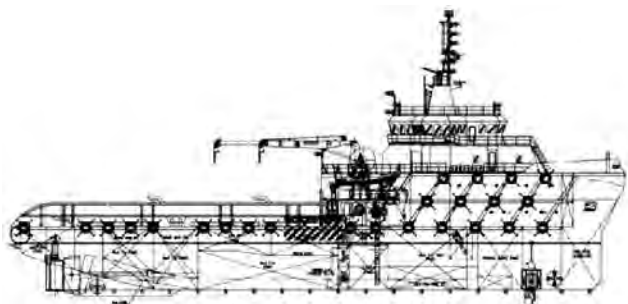


Lewek Emerald is an Anchor Handling Tug & Supply Vessel built:

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

Specifications:

• Length	65.6 m
• Breadth	15.0 m
• Propulsion	11,000 BHP
• Deck Area	410.0 m ²
• Bollard Pull	133 T
• AH / Towing Winch	300 T Pull / 450 T Brake
• Accommodation	33 men



Classification

Lloyd's Register of Shipping

* 100A1, Offshore Supply Ship, Fire-Fighting Ship 1 (2,400 m³/hr) with Water Spray, DP(AM) * LMC

Builder Pan-United Shipyard, Singapore
Year Built 2003
Flag Malaysia

Measurement

Length Overall 65.6 m
Length BP 58.2 m
Breadth Moulded 15.0 m
Depth Moulded 6.8 m
Draft (Max) 5.8 m

Tonnage

Dreadweight 1,847 T
GRT 2,104 T
NRT 631 T

Maneuvering & Propulsion System

Main Engine 2 x MAK 8M32C, 5,500 BHP each
Total BHP 11,000 BHP
Propeller 2 x CPP, Kamewa 86 P1 / 4T
Retractable Azimuth Thruster 1 x HRP 511-51 RT, 990 kW, 12.0 T Thrust
Bow Thruster 1 x 590 kW, 8.0 T Thrust
Stern Thruster 1 x 590 kW, 8.0 T Thrust
Bollard Pull 133 T @ 100% MCR

Dynamic Positioning System

DP-1 System Nautronix NMS L3-DP1 System

Electrical Power Generation

Main Generator 2 x CAT 3412C rated 580kW / 440V / 60Hz / 3Ph
Alternator 2 x 1,000kW / 450V / 60Hz / 3Ph
Emergency Generator 1 x CAT 3304 DIT rated 95kW / 440V / 60Hz / 3Ph

Cargo Deck

Deck Area 410.0 m²
Deck Strength 5.4 T/m²
Deck Cargo Capacity 800 T

Storage Capacity

Fuel Oil 998.6 m³
Portable Water 236.0 m³
Drill Water / SWB 451.8 m³
Liquid Mud / Base Oil / Brine 367.3 m³ (2 Tanks)
Dry Bulk 204.0 m³ (4 x 1,817 ft³)
Chain Locker 205.4 m³
Foam / Detergent 10.0 m³ / 10.0 m³

Discharge Capacity

Fuel Oil 1 x 120 m³/hr @ 80 m head
Portable Water 1 x 120 m³/hr @ 80 m head
Drill Water 1 x 120 m³/hr @ 80 m head
Liquid Mud / Base Oil / Brine 2 x 100 m³/hr @ 75 m head
Dry Bulk 1 x 100 m³/hr @ 50 m head

Accommodation

Berth / Cabin 9 x 1 man
 6 x 2 men
 2 x 3 men
 1 x 6 men
 33 men
Total

Deck Equipment

Anchor Windlass 1 x 11 T, Brattvaag
Anchor Chain 2 x 467.5 m x 36 mm (ø)
Anchor (Bow) 3 x 1,980 kg AC14 Type High Holding Power Anchors
Tugger Winch 2 x 10 T @ 13 m/min, Brattvaag
Capstan 1 x 10 T @ 19 m/min, Brattvaag
Deck Crane 1 x Hydramarine HMC 1400 LT
 SWL: 10 T @ 7 m; 5 T @ 15 m

Towing & Anchor Handling Equipment

AH Winch 450 T Brake, 300 T Pull
 Brattvaag Double Drum Hydraulic Driven, Waterfall type
 Drum Capacity 1,500 m x 76 mm (ø)
Chain Gypsy 2 x 76 mm (ø), 2 x 84 mm (ø), Non-Declutchable
Towing Brake 450 T Brake, 300 T Pull
 Brattvaag Double Drum Hydraulic Driven, Waterfall type
 Drum Capacity 1,500 m x 76 mm (ø)
Storage Reel Drum Capacity 2 x 1,500 m x 76 mm (ø)
Karm Fork 2 x Karm Fork, SWL: 500 T
Tow Pin 2 x Tow Pin, SWL: 500 T
Stern Roller 5.0 m x 2.0 m (ø), SWL: 400 T

Navigation and Communication Equipment

GMDSS (Area 3) SAILOR System 4000
VHF DSC 2 x SAILOR RT4822
MF / HF SSB 1 x SAILOR HT4520
MF / HF DSC 1 x SAILOR HT 4520
EPIRB 1 x Saracom EB-10
SART 2 x Saracom RT-10
Navtex Receiver 1 x ICS NAV5
Portable GMDSS VHF 3 x McMurdo
Inmarsat 1 x Furuno Felcom 16
Radar 1 x Furuno FR-1505 MK2
Gyrocompass 2 x Cassens & Plath NAVIGAT X MKI
Magnetic Compass 1 x Cassens & Plath MERKUR
Auto Pilot 2 x Cassens & Plath NAVIPILOT AD-II
DGPS 1 x Leica AP MK12 / AP MX 420
Joystick Fitted
Echo Sounder 1 x ELAC LAZ 5000
Speed Log 1 x BEN Anthea 12E
Anemometer 2 x RM Young 05103
AIS 1 x Furuno FA-100

Fire-Fighting & Anti Pollution Equipment

FIFI Class (1) with Water Supply
Pump 1 x 3,200 m³/hr
Monitor (water / foam) 2 x 1,200 m³/hr / 300 m³/hr @ 12 bar
Oil Dispersant System 2 x 6 m Spray Boom

Safety Equipment

Life Raft 2 x 6 persons, 4 x 20 persons, Surviva
Rescue Boat 1 x 6 persons, Maritime Partner Weedo 17RB, 75HP
Davit Hydramarine HMD A32 MK3, SWL: 3.2 T

Miscellaneous

Oil Water Separator 1 x Hamworthy HS1 MKII, 1.0 m³/hr
Sewage Treatment 1 x 26 persons, Hamworthy Super Trident ST4A

* This vessel specification is given in good faith and assumed to be accurate at the time of print.

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