

Commercial and Operational Office

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65M OFFSHORE SUPPORT TUG

VORTEX REVOLUTION

8,160 BHP | 110 TBP



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SPECIFICATIONS:

ANCHOR HANDLING & SUPPLY TUG, FIFI 1, DP-1

GENERAL:

Vessel Type: Anchor Handling Tug Supply Vessel DP1

Built: 2009
Flag: Liberia
Port of Registry: Monrovia
Classification: Lloyd's Register

Class Notation:

♣A1, Towing Vessel, AH/Offshore Support Vessel,

(E), **★**AMS, DPS-1, FFV-1

DIMENSIONS:

Length Overall: 65.60 m Beam (Moulded): 16.00 m Designed Draft: 5.50 m Scantling Draft: 5.80 m GRT: 2147.00 T NRT: 644.00 T Deadweight: 2067.21 T Deck Strength: 5.50 T/m² Clear Deck Space: 450.00 m²

CAPACITIES:

Fuel Oil: 674.30 m³ Fresh Water: 416.80 m³ Drill Water: 406.40 m³ 233.20 m³ Dry Bulk: Liquid Mud/ Brine Water Tank: 322.50 m³ Hydraulic Oil: 7.40 m^3 14.70 m³ Foam: Dispersant: 14.70 m³ Lube Oil Storage: 12.80 m³ Dirty Oil: 7.80 m³ 12.70 m³ Sewage Holding: Bilge: $7.40 \, \text{m}^3$ Brine /DW/WB: 149.40 m³

MACHINERY:

Main Engines: 2 x 4,080 BHP @750 RPM c/w

reduction gearbox

 Propulsion:
 2 x CPP, 3.5 m Dia. @ 4-bladed

 Bow Thruster:
 1 x 10 Tons CPP, 440V / 3Ph / 60Hz

 Stern Thruster:
 1 x 10 Tons CPP, 440V / 3Ph / 60Hz

 Retractable Thruster:
 1 x 1.6 m Dia. FPP (1000BHP)

Diesel Engine @ 1800 RPM)

Steering Gear: 2 x Independent Electro Hyd. System Main Generators: 2 x 450 kW @ 440V/3Ph/60Hz Emergency/Harbor

DYNAMIC POSITIONING SYSTEM: DP1

DP-1 System: 1 set

Maker: GE Power Conversion

PERFORMANCE:

Bollard Pull: 110 T Speed(max): 12 Kts



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VORTEX REVOLUTION

Electro-hydraulic System.

1 x 1800 m x 64 mm Dia. Wire

1 set x 300 Tons @ Electro Hyd. System

1 set x 160 Tons @ Electro Hyd. System

2 x 10 Tons @ Electro Hyd. System

2 x 9 Tons @ Electro Hyd. System

1 x 5 Tons (SWL) @ 15 m outreach

8,160 BHP | 110 TBP

ANCHOR HANDLING & TOWING:

Anchor Windlass and Mooring Winch:

Windlass with 10 Tons Duty Pull @ 13 m/min, Anchor Handling and **Towing Winch:**

Mooring drum with 11 Tons pull @ 11.5 m/min Double drum, Waterfall type @ electro-hydraulic system, Drum capacity of 2 x 1500 m x 64 mm Dia Wire, 300 Tons brake holding and 250 Tons pull force @ 8.5 m/min

Storage Reel Winch: Shark Jaw: **Towing Pins:**

Stern Roller: Tugger Winch:

Capstan: **Provision Crane:**

Reefer Point:

Anchor Type: **Anchor Capacity: Anchor Chains:**

4 x 16 A, 415V/3Ph/50Hz 4 x 32 A, 230V/1Ph/50Hz

(telescopic crane)

4.80 m(L) x 2.00 m Dia.

Stockless Bower Anchors

2 x 2280 kg 825 m (TOTAL)

NAVIGATION/ COMMUNICATION:

GMDSS Radio A3: 1 complete set 1 unit

GPS Navigator: DGPS: 2 units

2 units Gyro Compass Gyro Compass c/w: Autopilot: 1 unit Autopilot

Magnetic Compass: 1 set 2 units Radar (ARPA): Echo Sounder: 1 unit 1 unit Speed Log: Anemometer: 2 units Navtex Receiver: 1 unit AIS: 1 unit SART: 1 set

EPIRB: 1 unit (406MHz)

SSAS: 1 set Satellite Communication: 1 set

Satellite Data Transmission: 1 set x Inmarsat System

Interior Communication System: 1 set PA System: 1 set Sound Reception System: 1 set Search Light: 2 units Fleet Broadband: 1 set

ACCOMODATION:

Total:

38 Berths, Fully Air-Conditioned

2 x 1 berth cabins = 2 4 x 2 berth cabins = 8 7×4 berth cabins = 28

Hospital 1 x 1 Man bunk

1 x Treatment Table

DISCHARGE RATES:

1 x 150 m³/ hr @ 90 m head Fuel Oil (Cargo): 1 x 150 m³/ hr @ 90 m head Fresh Water (Cargo): Drill Water (Cargo): 1 x 150 m³/ hr @ 90 m head 2 x 100 m³/ hr @ 90 m head Liquid Mud (Cargo): 1 x 100 m³/ hr @ 90 m head Brine (Cargo):

FIREFIGHTING - FIFI CLASS 1:

FiFi System: FFV₁

2 x 1600 m³/hr Fire Pumps Capacity:

Fire Monitor Capacity: 1 x 1200 m³/hr water c/w 300 m³/hr foam;

1 x 1200m³/hr water 2 x 6 m Dispersant Boom

1 x Fixed Fire-extinguishing System (CO2) to Machinery Space Cat. A,

1 x Fixed Local Application System (Water Mist) to Machinery Space Cat.A,

1 x Fire Detection & Alarm System

1 x Deck Foam in accordance with IMO SOLAS/ FFS Code & Flag State

requirements

SAFETY EQUIPMENT:

Oil Dispersant System:

Liferafts: 6 x 20 men

Rescue Boat: 1 x 6 men semi rigid type c/w

pivoting davit

Vessel's Life Saving Equipment are in accordance with SOLAS / LSA Code & Flag State requirements

MISCELLANEOUS:

Hydraulic Power-Pack:

Bulk Tank Compressor: 2 x 1368 m³/ hr @ 5.6bar Bulk Tank Dryer: 1 x 1800 m³/ hr @ 5.6bar

Oily Water Separator: $1 \times 1 \text{ m}^3 / \text{hr}$

Sewage Treatment Plant: 1 x 4.66 m³/ day (38 men)

Liquid Mud Agitator: 2 x 2.5m dia.

> impeller; 16.5 kW/35rpm EACH 1 x 100ℓ / min c/w 55.0 kW Motor,

440V / 3Ph / 60Hz @1770 rpm

1 x 300 (Reservoir Tank)