

65M OFFSHORE SUPPORT TUG

VORTEX REVOLUTION

8,160 BHP | 110 TBP



SPECIFICATIONS:

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

GENERAL:

Vessel Type:	Anchor Handling Tug Supply Vessel DP1
Built:	2009
IMO no:	9516894
Official no:	23628
Call Sign:	5LOQ5
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/m ²
Clear Deck Space:	450.00 m ²

CAPACITIES:

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

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 Generators:	1 x 140 kW @ 440V/3Ph/60Hz
Shaft Alternators:	2 x 1450 kW @ 440V/3Ph/60Hz

DYNAMIC POSITIONING SYSTEM: DP1

DP-1 System:	1 set
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PERFORMANCE:

Bollard Pull:	110 T
Speed(max):	14 Kts

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ANCHOR HANDLING & TOWING:

Anchor Windlass and Mooring Winch:	Electro-hydraulic System, Windlass with 10 Tons Duty Pull @ 13 m/min, Mooring drum with 11 Tons pull @ 11.5 m/min
Anchor Handling and Towing Winch:	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:	1 x 1800 m x 64 mm Dia. Wire
Shark Jaw:	1 set x 300 Tons @ Electro Hyd. System
Towing Pins:	1 set x 160 Tons @ Electro Hyd. System
Stern Roller:	4.80 m(L) x 2.00 m Dia.
Tugger Winch:	2 x 10 Tons @ Electro Hyd. System
Capstan:	2 x 9 Tons @ Electro Hyd. System
Provision Crane:	1 x 5 Tons (SWL) @ 15 m outreach (telescopic crane)
Reefer Point:	4 x 16 A, 415V/3Ph/50Hz 4 x 32 A, 230V/1Ph/50Hz
Anchor Type:	Stockless Bower Anchors
Anchor Capacity:	2 x 2280 kg
Anchor Chains:	825 m (TOTAL)

NAVIGATION/ COMMUNICATION:

GMDSS Radio A3:	1 complete set
GPS Navigator:	1 unit
DGPS:	2 units
Gyro Compass c/w:	2 units Gyro Compass
Autopilot:	1 unit Autopilot
Magnetic Compass:	1 set
Radar (ARPA):	2 units
Echo Sounder:	1 unit
Speed Log:	1 unit
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 x 4 berth cabins = 28

Hospital 1 x 1 Man bunk
1 x Treatment Table

DISCHARGE RATES:

Fuel Oil (Cargo):	1 x 150 m ³ / hr @ 90 m head
Fresh Water (Cargo):	1 x 150 m ³ / hr @ 90 m head
Drill Water (Cargo):	1 x 150 m ³ / hr @ 90 m head
Liquid Mud (Cargo):	2 x 100 m ³ / hr @ 90 m head
Brine (Cargo):	1 x 100 m ³ / hr @ 90 m head

FIREFIGHTING - FIFI CLASS 1:

FiFi System:	FFV 1
Fire Pumps Capacity:	2 x 1600 m ³ /hr
Fire Monitor Capacity:	1 x 1200 m ³ /hr water c/w 300 m ³ /hr foam; 1 x 1200m ³ /hr water
Oil Dispersant System:	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:

Liferafts:	6 x 20 men
FRC:	1 x 15 men Norsafe Merlin-615 type fast Rescue boat with davit

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

MISCELLANEOUS:

Bulk Tank Compressor:	2 x 1368 m ³ / hr @ 5.6bar
Bulk Tank Dryer:	1 x 1800 m ³ / hr @ 5.6bar
Oily Water Separator:	1 x 1 m ³ / hr
Sewage Treatment Plant:	1 x 4.66 m ³ / day (38 men)
Liquid Mud Agitator:	2 x 2.5m dia. impeller; 16.5 kW/35rpm EACH
Hydraulic Power-Pack:	1 x 100ℓ / min c/w 55.0 kW Motor, 440V / 3Ph / 60Hz @1770 rpm 1 x 300ℓ (Reservoir Tank)

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