

### Commercial and Operational Office P.O. Box 930001 Empire Heights Building Suite 13F-A-01, Business Bay Dubai, United Arab Emirates Tel: + 971(4) 551 9930 Fax: +971(4) 551 9931 info@vortexoffshore.com | www.vortexoffshore.com

### 65M OFFSHORE SUPPORT TUG VORTEX EVOLUTION

### 8,160 BHP | 110 TBP



## - SPECIFICATIONS:

### GENERAL:

Vessel Type: Built:	Anchor Handling Tug Supply Vessel DP1 2010
Flag:	Vanuatu
Port of Registry:	Port Villa
Classification:	ABS
Class Notation:	
	(Ē), ₩AMS, DPS-1, FFV-1

### DIMENSIONS:

		Evel Oile	$(74.00 m^{3})$
Length Overall:	65.60 m	Fuel Oil:	674.30 m <sup>3</sup>
Beam (Moulded):	16.00 m	Fresh Water:	416.80 m <sup>3</sup>
Designed Draft:	5.50 m	Drill Water:	406.40 m <sup>3</sup>
5	F 00 m	Dry Bulk:	233.20 m <sup>3</sup>
Scantling Draft:	5.80 m	Liquid Mud/	
GRT:	2147.00 T	Brine Water Tank:	322.50 m <sup>3</sup>
NRT:	644.00 T	Hydraulic Oil:	7.40 m <sup>3</sup>
Deadweight:	2067.21 T	Foam:	14.70 m <sup>3</sup>
Deck Strength:	5.50 T/m <sup>2</sup>	Dispersant:	14.70 m <sup>3</sup>
Free Deck Space:	415.00 m <sup>2</sup>	Lube Oil Storage:	12.80 m <sup>3</sup>
		Dirty Oil:	7.80 m <sup>3</sup>
		Sewage Holding:	12.70 m <sup>3</sup>
		Bilge:	7.40 m <sup>3</sup>

CAPACITIES:

Brine /DW/WB:

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

### 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
Main Generators: Emergency/Harbor Generators:	2 x Independent Electro Hyd. System 2 x 450 kW @ 440V/3Ph/60Hz 1 x 140 kW @ 440V/3Ph/60Hz

### DYNAMIC POSITIONING SYSTEM: DP1

DP-1 System:	
Maker:	

1 set GE Power Conversion

#### PERFORMANCE:

Bollard Pull: Speed(max):

110 T 14.7 Kts

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149.40 m<sup>3</sup>



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### **65M OFFSHORE SUPPORT TUG VORTEX EVOLUTION**

### ANCHOR HANDLING & TOWING:

Anchor Windlass and Mooring Winch: Anchor Handling and Towing Winch:	Electro-hydraulic System, Windlass with 10 Tons Duty Pull @ 13 m/min, 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:	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 4.80 m(L) x 2.00 m Dia. 2 x 10 Tons @ Electro Hyd. System 2 x 9 Tons @ Electro Hyd. System 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: Anchor Capacity: Anchor Chains:	Stockless Bower Anchors 2 x 2280 kg 825 m (TOTAL)

1 complete set

1 unit

2 units

### 8,160 BHP | 110 TBP

### **DISCHARGE RATES:**

Fuel Oil (Cargo):
Fresh Water (Cargo):
Drill Water (Cargo):
Liquid Mud (Cargo):
Brine (Cargo):

1 x 150 m<sup>3</sup>/ hr @ 90 m head 1 x 150 m<sup>3</sup>/ hr @ 90 m head 1 x 150 m<sup>3</sup>/ hr @ 90 m head 2 x 100 m<sup>3</sup>/ hr @ 90 m head 1 x 100 m<sup>3</sup>/ hr @ 90 m head

### FIREFIGHTING - FIFI CLASS 1:

FiFi System: Fire Pumps Capacity: Fire Monitor Capacity:

Oil Dispersant System:

FFV 1 2 x 1600 m<sup>3</sup>/hr 1 x 1200 m<sup>3</sup>/hr water c/w 300 m<sup>3</sup>/hr foam; 1 x 1200m<sup>3</sup>/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

#### SAFETY EQUIPMENT:

Liferafts:	
Rescue Boat:	

6 x 20 men 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:**

Bulk Tank Compressor:	2 x 1368 m³/ hr @ 5.6bar
Bulk Tank Dryer:	1 x 1800 m³/ hr @ 5.6bar
Oily Water Separator:	1 x 1 m³/ 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
Hydraulic Power-Pack:	1 x 100ℓ / min c/w 55.0 kW Motor,
	440V / 3Ph / 60Hz @1770 rpm
	1 x 300ℓ (Reservoir Tank)

#### Gyro Compass c/w: Autopilot:

NAVIGATION/ COMMUNICATION:

GMDSS Radio A3: **GPS Navigator:** 

DGPS:

2010.	E diffico
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

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2 \times 1 berth cabins = 2
4 x 2 berth cabins = 8
7 x 4 berth cabins = 28
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Hospital

1 x 1 Man bunk 1 x Treatment Table

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# requirements