2011/ DP1 AHTS, FiFi-1



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Brake Horsepower 4826-5147 BHP
Clear Deck Space 275-330 m2
Winch Line Pull 150 tonnes

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General Information

Built:	2011
Flag:	TBD
Call Sign:	TBD
IMO No.:	TBD
Classification:	DNV-GL +1A Fire fighter(I) Offshore service vessel(Anchor handling, Towing)

Dimensions

Length, overall:	57.50 metres
Length, BP:	50.50 metres
Breadth, moulded:	14.00 metres
Depth, main deck:	6.00 metres
Design draft:	4.55 metres
Maximum draft midship:	5.10 metres
GT:	1329
NT:	484

Capacities

1543.53 tonnes Deadweight (maximum): Clear Deck Area: 30m x 11m = 330 m2 General deck - 5 t/m2 Deck Strength: Aft AH deck - 19 mm steel plate Deck Cargo: 500 tonnes 566.286 m3 (dedicated) Fuel: 400.746 m3 Potable Water: Ballast Water: 371.866 m3 Brine / DMA / Glycol / Liquid Mud: 147.264 m3 or 5200 ft3 (2 tanks dual-use Brine/Mud/DMA)

Dry Bulk:

Liquid Mud:

Machinery

Main Engines:	
Propulsion:	

Bow Thrusters:

Stern Thrusters: Shaft Generators: Auxiliary Generators: Emergency Generators:

2 x CPP propellers in Kort nozzles 2 x Electric-hydraulic steering gear
1 x 500 kW (670 BHP) producing 7.9 tonnes (77.5 kN) thrust
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1 x 320 kW Caterpillar 3406 C with spark arrestor
1 x 315 kW Caterpillar 3406 C with spark arrestor

184.432 m3 or 6513 ft3 (4 dedicated tanks)

331.696 m3 or 11713 ft3 (including 2 dual-use tanks)

2 x 1920 kW = 3840 kW (5147 BHP) Yanmar 6EY26

135 m3 or 4750 ft3 in 2.x 2 tank independent systems ine.

Towing and Anchor Handling

Main Winch:	
Load Capacity:	

Bollard Pull:

Brake Capacity:

Tow Drum Wire Capacity: Work Drum Capacity: Chain Gypsy Cable Lifter: Stern Roller: Tow Pins / Guide Pins: Wire Chain Stopper:

Deck Machinery

Tuggers: Capstans: Windlass: Bow Mooring: Crane Capacity:

Electronics

Main Radar: Auxiliary Radar: Auto Pilot: Gyro Compass: Magnetic Compass: Echo Sounder: DGPS : Communications:

Weather Fax: Satellite Communication: AIS:

61.86 MT continuous	
76.5 MT maximum	
1 x MacGregor-Plimsoll double drum, low pressure winch	
Towing / A/H drums 1st layer	
150 tonnes at 7.2 m/min	
100 tonnes at 10.8 m/min	
50 tonnes at 22 m/min	
250 tonnes (static) on towing drum 1st layer	
250 tonnes (static) on AH drum 1st layer	
1200 m x 64 mm (2.5 inch) diameter	
1200 m x 64 mm (2.5 inch) diameter	
1 x 76 mm (3 inch) diameter chain	
1 x 2 m diameter x 4 m width, SWL 250 tonnes	
1 x set hydraulic Karmoy, remotely controlled	
1 x retractable Karmoy, SWL 250 tonnes, controlled from wheelhouse (32 mm chain)	- 76

2 x 10 tonnes MacGregor-Plimsoll 8 x tonnes x 15 m/min MacGregor-Plimsoll ; Drum - 10 tonnes x 10 m/min 1440 kg high holding power anchor, 412.5 m x 30 mm dia U3 chain 1 x mooring drum capacity 220 m x 38 mm synthetic rope SWL 1500 kg @ 8 m radius, make: Helia, model: HM25-8F

1 x Furuno X-band, 21 inch colour LCD, ARPA 1 x Furuno S-band, 21 inch colour LCD, ARPA 1 x Tokyo Keiki PR-6000-e 1 x Tokyo Keiki TG-8000 with 4 repeaters 1 x Tokyo Keiki SR-165 1 x Furuno FE-700 GPS: 1 x Furuno DG-150 G.M.D.S.S. (Global Maritime Distress & Safety System) Area A3 2 x VHF 2 x Inmarsat C 3 x VHF (portable) 1 x Navtex 1 x MF/HF Furuno 3 x VHF (portable) McMurdo Furuno FAX 408 FBB: Sailor 500 Furuno FA 150

Discharge Pumps

Fuel Oil:	1 x 100 m3/hr - 7.0 bar
Dirty Oil:	1 x 10 m3/hr - 2.0 bar
Potable Water:	1 x 150 m3/hr - 7.0 bar
Drill Water:	1 x 150 m3/hr - 7.0 bar
Liquid Mud:	1 x 75 m3/hr - 18 bar
Brine / Mud:	1 x 75 m3/hr - 18 bar
Dry Bulk:	2 x 78 m3/hr - 5.6 bar, 80 psi
Hose Connections :	Fuel - 4" Camlock
	Potable Water - 4" Camlock
	Drill Water - 4" Camlock
	Liquid Mud - 5" Camlock
	Dry Bulk - 4" Camlock

Performance

Speed / Fuel Consumption:	Maximum speed 13.5 knots free running at 100% MCR - approximate fuel consumption 19 m3 per day
	Economical speed 10 knots - approximate fuel consumption 10.5 m3 per day Idle at sea - approximate fuel consumption 2.3 m3 per day
	Idle in port - approximate fuel consumption 0.8 m3 per day

Dynamic Positioning

Type:

Joystick, suitable for upgrading to DP 1

External Fire Fighting

Capacity:	2 x 1200 m3/hr = 2400 m3/hr
Monitors:	2 x 1200 m3/hr mounted on wheelhouse top, remotely controlled from wheelhouse
Throw Length:	120 m
Throw Height:	50 m at 70 m distance

Standby Rescue Equipment

- 1. 1 x Vanguard VG 6.0 FRW, 15 persons, SOLAS approved FRB with inboard diesel waterjet propulsion.
- 2. Rescue Zones on both Port and Starboard side, main deck, with scrambling net and personnel transfer swing ropes.

Anti-Pollution	
Dispersant Tank:	9.190 m3
Spray Booms:	4 x spray nozzles (2 at each side), outreach: 12 m

Accommodation

Berths:

- 4 x 1 berths 4 x 2 berths 2 x 4 berths 20 berths in Total
- 1 x combined messroom/recreation room
- 1 x galley
- 1 x hospital (2 berths)
- All living space fully air-conditioned, design 45 deg C / 70% RH outside, 25 deg C / 50% RH inside

Environmental Features

- 1. Real time main engine fuel consumption monitoring, ensuring maximum fuel efficiency and emissions reduction.
- 2. Coffin 5 ppm oily water separator, effluent quality exceeds the 15 ppm current legislation requirements.
- 1 x Omnipure sewage plant, complies with latest 2010 IMO Resolution MEPC 159(55).
- 4. Cargo load / discharge stations with saveall to inboard tank.
- 5. Low residue design bulk tanks.
- 6. Mud tanks with dedicated recirculation pumps.
- 7. Macerator fitted in galley. Provision for recycling of waste.

Miscellaneous

- 1. Design complies to latest rules and regulations from SOLAS 1974, and IMO 469 (XII) "Guidelines for the design and construction of offshore supply vessel".
- 2. Bulk systems remotely controlled from wheelhouse.
- 3. Fitted with 3 halogen searchlights (1 fwd, 2 aft), each 2000W, on wheelhouse top and electrically operated from inside wheelhouse, 8 x 1000W floodlights for cargo deck.
- 4. Deck power supplies:
 - 4 x 250A, 440V, 3 phase
 - 1 x 63A, 440V, 3 phase
 - 1 x 32A, 220V, single phase
- 5. Wood sheathed main deck for aft area, which is steel plated for anchor handling. Supplied with anchor grapnel.
- 6. Welding / cutting equipment and lathe in workshop.
- 7. Fresh water ultra violet sterilizer.
- 8. CO2 fire extinguishing system fitted in the engine room / paint locker / hydraulic pump room / emergency generator room. Independent CO2 system for Galley.
- 9. Fire detection system fitted to the accommodation, engine room and throughout the vessel.
- 10. Statutory liferafts, life-jackets, pyrotechnics.
- 11. Removable crash rail sections on main deck (PS & SB) to facilitate R.O.V. operation.