

5,150 Bhp Anchor Handling / Supply / Standby Fire Fighting Tug



PRINCIPAL PARTICULARS		PROPULSION SYSTEM	
Length Overall	59.25 m	Main Engines	2 x 1920 kW (2575 bhp) @ 1600rpm
Length Waterline	56.00 m		Caterpillar 3516B
Breadth Moulded	14.95 m	Main Generators	3 x Volvo D16 MG HE @ 1500 rpm
Depth Moulded	6.10 m		driving Stamford alternator
Draft (designed)	4.95 m		HCM534D-1 rated @ 340 kW/415 V/50 Hz/3 Ph
GRT / NRT	1678 / 503	Emergency Generator	1 x Volvo D 5A @ 1500 rpm
Built	2008-2009		driving Stamford alternator
Class	American Bureau of Shipping		UCM274C-1 rated at 62 kW/415 V/50 Hz/3 Ph
Notation	ABS + A1E "Offshore Support	Shaft Alternator	Nil
	Vessel & Fire Fighting Vessel Class 1 + AMS"	Bow Thruster	1 x 371 kW electric-driven kamone
Flag	Singapore		tunnel type (CPP); Thrust 58.8 kN
Call Sign	9V7580		(6,000kgf)
		Stern Thruster	Nil
PERFORMANCE		Steering Gear	2 x 4.5 tm / 35 deg rudder angle
Maximum Speed	13 knots	Propulsion	2 x CPP Type with Kort Nozzle
Economical Speed	10 knots	Rudders	2 x high performance streamline type
Type of Fuel	Marine Gas Oil		
Fuel Consumption	19 m ³ /24 hours @ max speed	RADIO & NAVIGATION EQUIPMENT	
	12 m ³ /24 hours @ econ speed	GMDSS	Furuno RC-1800T (Area 3) comprising
Bollard Pull	65 mt	SSB	1 x Furuno with built in DSC
CARGO CAPACITIES		Inmarsat C	1 x Furuno
Deadweight	1400 mt @ 4.95 draft	VHF Radio	2 x Furuno with built – in DSC
Deck Cargo	500 mt	Navtex Receiver	1 x Furuno (518 KHz)
Deck Strength	7.5 mt/m ² uniform loading	SART	2 x McMurdo (9 GHz)
Clear Deck Area	350 m ²	EPIRB	1 x McMurdo
Fuel Oil	540 m ³ approx	Portable VHF Radios	3 x McMurdo (25KHz)
Fresh Water	370 m ³ approx	X-Band APRA Radar	1 x Furuno
Ballast/Drill Water	400 m ³ approx	Marine Radar	1 x Furuno
Liquid Mud	420 m ³ approx	Echo Sounder	1 x Furuno
Cement Tank	187 m ³ (4 x 1650 ft ³) approx	DGPS	1 x Furuno
Freezer / Chiller	10 m ³ / 10 m ³ approx	Gyrocompass	1 x Anschuetz
Foam / Detergent	12 m ³ / 12 m ³ approx	Autopilot	1 x Anschuetz Nautopilot
Rig Chain Locker	Nil	Magnetic Compass	1 x Cassens & Plath
PUMPS		Weather Fax	1 x Furuno
Fuel Oil	1 x 150 m ³ / hr @ 75m head;	Speed Log	1 x Furuno
Fresh Water Cargo	1 x 125 m ³ / hr @ 75m head;	AIS	1 x Furuno
Drill Water/W.Ballast	1 x 100 m ³ / hr @ 75m head;	DP	Nil but DP enabled (MT Bridge Mate DP1)
Liquid Mud	2 x 70 m ³ / hr @ 85m head (SG 2.5 max)	Joystick	MT Bridge Mate JX

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Bulk Cement air compressor	2 x 13 m ³ / min @ 80 psi (5.6 kg/cm ²)	Vessel also fitted with Vingtor PA Talkbalk System & Self-Powered Telephones	
ACCOMMODATION :		FIRE-FIGHTING EQUIPMENT & ANTI-POLLUTION EQUIPMENT EXTERNAL	
Berths	2 x 1 berth cabins = 2	FiFi System	Class 1 with water curtain all around
	4 x 2 berth cabins = 8	Fire Pump	2 x 1550 m ³ /hr @ 13 bar driven by
	8 x 4 berth cabins = <u>32</u>		Front PTO of M/E
Total	<u>42</u>	Monitors - (water/foam)	1 x 300 – 1200 m ³ /hr
Hospital	1 x 2 berth cabin = 2	- (water)	1 x 1200 m ³ /hr
All cabins fully air-conditioned & c/w attached washroom		Oil Dispersant System	1set c/w 2spray booms 6m(6 nozzles each)
DECK EQUIPMENT			
Anchor Windlass	1 x electro-hydraulic HAW; Mentrade	Towing/AH Winch	1 x electro-hydraulic double drum AHTW, Mentrade
Drum	2	Upper Drum Cap (Tow)	1000 m (L) x 56 mm (Ø) SWR
Gypsies	36 mm (Ø) chains (subject to class	Lower Drum Cap (AH)	1000 m (L) x 56 mm (Ø) SWR
	requirement) rated pull 10mt @9m/min	Line Pull	150 mt @ 6.0 m/min at 1st layer
Warping drum	400 mm (dia) x 450 mm (L)		71 mt @ 12 m/min at 1st layer
Bow Anchors	2 x 1305 kg HHP anchors		50 mt @ 18 m/min at 1st layer
Anchor Chain	440 m (L) x 36 mm (dia) Grade U2 (each side)		23.5 mt @ 36 m/min @ 1st layer
Capstan	2 x 5 mt @ 15m/min electro-hydraulic	Brake Holding	200 mt static @ 1st layer
	Head size 400 mm (dia)		Remote control from aft control stand in wheelhouse
Tugger Winch	2 x 10 mt @15m/min electro-hydraulic	Gypsies	Nil
	Drum Capacity: 220m (L) x 22mm (dia) SWR	Warping Drums	Nil
Stern Roller	4.50 m (L) x 1.60 m (dia); SWL 180mt	Rope Reel	1 x 5 mt @ 30 m/min electro-hydraulic
Shark Jaws	1 x electro-hydraulic Karmfork – SW300mt		suit' for 1000 m (L) x 56 mm (dia) SWR
Sewage Treatment Plant	1 x 40 men/day	Tow Pins	2 x electro-hydraulic with turntable top flaps
		Deck Crane	Nil
MISCELLANEOUS			
INTERNAL		Search Lights	3 x 2000 W
Emergency Fire Pump	1 x 35 m ³ /hr at 50m head	Floodlights	5 x 1000 W
BA Recharging Comp	1 x 260 ltrs/min @ 300bar	Liferafts	6 x 25 men SOLAS Approved Type
CO2 system in engine room		Rescue boat	1 x 6 men rigid boat c/w outboard motor
Fire Detection & Alarm System in living spaces & engine room		Oily Water separator	1 x 1 m ³ /hr
		Water Maker	1 x 5 m ³ /day Reverse Osmosis
Note: specifications subject to change without notice			
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