

Penrith



MAIN PARTICULARS

Built	March 2008
Class	ABS X A1, (E), OSV, Tow Vsl, FiFi-1, X AMS, X ACCU, XDPS-2
Flag	Majuro, Marshall Islands
Solas	Full
Radio Call Sign	V7OB7
IMO # & Official No.	IMO 9356397 O/N 3054
Length Overall	67.80m
Beam	15.00m
Length BP	60.75m
Depth	6.10m
Light Draft	3.50m
Loaded Draft	5.00m
Summer Freeboard	1.10m
GT/NT	1,944 Tons / 583 Tons

CAPACITIES

Drill Water, Incl Ballast	547.48m ³
Fuel Oil	594.93m ³
Fresh Water	513.42m ³
Dry Bulk	170.00m ³
Ballast, Incl Drill	547.48m ³
Liquid Mud of Brine	416.04m ³
Lube Oil	29.29m ³
Hydraulic Oil	4.83m ³
Sewage Plant	USCG & UK approved sewage unit 1 x SBT 40 Biological System & 1 x ISS 15 Biological System
Dirty Oil	12.84m ³
Oily Bilge	9.20m ³
Foam	8.13m ³
Dispersant	13.51m ³
Dead Weight at 5.0 M	1,583Mt

TOWING & ANCHOR HANDLING

Winch Model	Plimsoll PC-AHTW/WF-250/350D with load tension meter
Type/Line Pull	Electro-hydraulic 2 Drum Waterfall 250 Mt
Winch Wire Capacity	2.75 inch (70mm) x 1500 m each drum
Chain Gypsies	2 x 76mm (3 inch)
Bollard Pull	102.28 Mt max continuous
Karmfork	1x 300MT
Towing Pins	2 X 250T with locking flaps
Stern Roller	300 Mt; 5m Wide
Storage Reel	Elec-Hyd; 10Mt, 2.75 inch (70mm) x 1500 m, 0 to 18 m/min
Tugger Winches	2 x 10 Mt Elec-Hyd; 0 to 15 m/min. 220m x 25mm dia wire
Capstans	2 x 5Mt Elec-Hyd; 380 mm Dia, 0 to 15 m/min

MACHINERY

Main Engines	2 x MAK 9M 25 x 750RPM at 2,970 kW each
Brake Horse Power	2 x 4,040BHP; 8,080 BHP in total
Reduction Gears	2 x Rolls-Royce Kamewa Ulstein 750 AGHC-KP500ND
Gear Ratio	4.6875 : 1
Propellers	2 x 3,300mm x 160 RPM x four blade, CPP in nozzles
Steering & Rudder	Jastram electro-hydraulic, 2 RR Ulstein hi lift flap rudders
Shaft Generators	2 x 1200 kW, 440 V, 60 Hz, 3ph
Aux. Generators	2 x 3408 CAT with 463KVA Alternators 440V, 60 Hz, 3ph
Solas E-Gen-Set	3056T Diesel with 123.8KVA alternator 440V, 60Hz, 3ph
Bow Thruster I & II	Kawasaki CPP, 400 kW, 6 Mt thrust
Stern Thruster	Kawasaki CPP, 400 kW, 6 Mt thrust

CARGO DECK

Tonnage	609.0Mt
Strength	7.5Mt/ m ²
Length	37.0m
Width	12.08m
Clear Area	447.0m ²

PERFORMANCE

Maximum Speed	14.18knots
Cruising / Econ Speed	12.0 / 10.0knots
Max Fuel Consumption	
@ 100% Load	28.02MT/day @ 85% Load 20.79MT/day
@ 50% Load	14.86MT/day @ 25% Load 8.66MT/day

ACCOMMODATIONS

Master & CE	2 x 1 person cabin 3 x 2 person cabins
Other Berths	11 x 4 person cabins
Hospital	1 x 1 person cabin
Total Cabins	16
Total Berths	52

DISCHARGE RATES

Drill Water	125m ³ /hr	75m
Fresh Water	125m ³ /hr	75m
Fuel Oil	125m ³ /hr	75m
Liquid Mud 2 x	100m ³ /hr	80m
Dry Bulk (Free Air) 2 x	20.2 m ³ /min	5.6 bar

ELECTRONICS & CONTROLS

Depth Recorder	JRC model JFE-582, 0 TO 500m with repeaters at aft station
Engine Control	Rolls-Royce Helicon-X control system
GPS Color Plotter	JRC model JLZ-700 with 15 inch screen
Dynamic Positioning 2	Converteam (Alstom) : ADP21 duplex Dynamic Positioning & AJS01 Independent Joystick with portable control panel
References	2 x DGPS Veripos Ultra 10cm Systems & Veripos QC; Tautwire Bandak 15B, 2 x 1 TSS DMS-05 MRU, 3 x Yokogawa gyro 1 x Sonardyne with 8021 transceiver & Ranger Pro software; 1 x Cyscan MK 2 Laser, c/w 3 targets, prism nest, anemometer x 2; Surveyors interface hub at bridge for connection to ref systems
Radars X 2	S-band + ARPA, linked to AIS & X-band + slave monitor at aft cont'
Radio System	GMDSS; Area A3
Autopilot & Steering	Navitron NT990G autopilot with Jastram electro-hyd steering
PA & Telephone Syst	SeaMate PA with talk-back, & SeaMate autotelephone 24 lines
Email & Satellite	V7OB7@globewireless.com, Mini-M & ACES Telephone
VHF-DSC	2 x 25 Watt JRC, JHS-32B (with 2 remote stations)
SSAS, AIS, Weather Fax	JRC Model JUE-75A/75C, JRC model JHS-182, JRC JAX-9A
Doppler Speed Log	Yokogawa model EML500-HS1

SPECIAL EQUIPMENT

Anchor Windlass	Plimsoll 9T at 12m/min
Anchor & Chain	2 x 1,500kg anchors with 38mm chain of 330m each side
External Fifi	ABS FiFi-1; 2 x monitors of 1,200m ³ /hr, one with foam
Fifi Pump	2 x 1500 m ³ /hr x 135m head
Water Maker	1 x 5.5T reverse osmosis & 1 x 10T/day Aquamar heat exch type
Discharge Meters	Freshwater, drill water, & Fuel; with printer
Survival Craft	as per SOLAS 6 x 16 man
Rescue Boat	Zodiac RIBO-420 model, semi-rigid, 6 pers.,40 HP w/davit
Liquid Mud Circulation	Two speed x 2 x 132kW Mission Pumps
Chiller/Freezer	12m ³ at +4°C and 10m ³ at -18°C
Provision Store	16.8m ³
Container/Deck Power	4 x 63A x 440 V x 3pH at 60 HZ
Deck Crane	20T Subsea Constant Tension System (20T x 9m inboard)(13T x 9m outboard) (10T x 12m in or outboard)
Stores Crane	Pedestal Telescopic Crane SWL 3T at 15m
LRIT	Long Range Identification Tracking
IMDG	Vessel is IMDG compliant

Hallin Marine

Loyang Offshore Supply Base 25, Loyang Crescent Blk 106, TOPS Street 12 Box 5083 508988

Tel:+65 6546 0341

Fax:+65 6546 6648

Email:enquiries@hallin.com.sg

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