

SEA PEARL

6140 BHP , AHTS, DPS 2



SEA PEARL

Principal Particulars		Machinery	
Official Number	SLR10389	Main Engine	2 X GE7 FDM 12, 2 X 3070BHP
Call Sign	9LU2402	Main Generator	Volvo Penta 2 X 380 KW/440V/3Ph/60 Hz
IMO Number	9468621	Emergency Generator	Volvo Penta 1x 85kW/440V/3Ph/60 Hz
Year Of Built	2011	Bow Thruster	2 X 500 KW (HRP)@1200RPM HRP 4000
Hull Number	325	Stern Thruster	1 X 500 KW (HRP)@1200RPM HRP 4000
Port of Registry	Free Town	Propulsion	2 x CPP in Kort Nozzles; BERG Propulsions
Builder	ABG Shipyard Ltd - India	Shaft Generator	2 X 1000 kw Leroy Somer
Flag	Republic of Sierra Leone		
Class	RINA		
Notation	A1,Towing Vessel,Fire Fighting Vessel Class1,Offshore Support Vessel,AMS,DPS-2		
Dimension		Performance	
Length Overall	63.40 M	Bollard Pull	85 T
Length Between Perpendicular	56.53 M	Total BHP	6140 BHP
Breadth Moulded	15.60 M	Speed - Average/ Fuel Consumption	10 knots / 6 MT F.O / 24 H
Depth Moulded	6.80 M	Speed- Maximum / Fuel Consumption	13.0 knots / 11 MT F.O / 24 H
Draft	4.5 M @ Deadwidth 1000T	Fuel Consumption in Port	0.8 MT/ Day / 24 H
Load Draft	5.5 M @ Deadwidth 1886.2 T	Type of Fuel	M G O
Gross Tonnage	1922 T		
Net Tonnage	647 T		

Deck Equipment		Navigation & Communication	
Anchor Windlass	NORCRANE - NCW-AW-GG-38U2-H	GMDSS	JRC
Gypsies	38 MM (Ø) U2 chainsrated pull 6.9 T x 0~10 M / Min	MF/HF	JRC - JSB-296/NCT -196
Warping drum	6.9 T x 0 ~10 M / Min Bow Anchors	Inmarsat C	JRC - JUE 85
Chains	Port side - 275 M (L) x 38 MM (dia) Grade U2	VHF Radio	2xJRC JHS-770S
Capstan	Starboard side - 192.5 M (L)x 38 MM (dia) Grade U22 x 8 Tonne x 15 M/Min electro-hydraulic;NORCRANE - NCW-1000-VC-8-H	Navtex Receiver	1 x JRC NCR -333
		SART	2 x JRC - JQX-30A
Tugger Winch	10 Tonne x 15 M / Min (1st Layer) electro-hydraulic; NORCRANE - NCW-1000-TUW-10-H Drum Capacity : 250 M x Ø2 6 MM (S.W.R @ 6 Layers)	AIS EPIRB	1x JRC- JHS182,1xMCMurdo E5 SMARTFI ND 406
		Portable VHF Radios	3 x JRC JHS-7
Deck Crane	1 x SWL 3T, NORCRANE -NCW-SC-058-0312 Outreach 12 M, Hoisting speed 0~20 M/Min Hook travel 25 M	Radar	1 x JRC - JMA 5312-6 , 1 x JRC - JMA 5332-12
		Echo Sounder	1 x JRC - JFE 680
Towing/AH Winch	1 x electro-hydraulic double drum water fall Type	GPS	1 x JRC DGPS 224
Upper Drum Cap (Tow)	1000 M (L) x 60 MM (Ø) SW R	Gyrocompass	3 x Anschutz Standard 22
Lower Drum Cap (AH)	1000 M (L) x 60 MM (Ø) SW R	Navtex	1 x JRC - NCR 333
Line Pull	225 MT	Autopilot	1 x NAVIS AP3000
Stall Pull	225 MT	BNWAS	1 x Furuno BR500
Brake Capacity	Remote Control from aft control stand in wheelhouse	Magnetic CoMpass	1 x Cassens & Plath
Gypsies	2x76 MM (Ø) Chain	Weather Fax	1 x JRC - JAX-9B
Stern Roller	4.50 M (L) x 2.20 M (dia) SU S316; SWL 200 Mt	Speed Log	1 x JRC - JLN25
Shark Jaws	1x electro-hydraulic Karmoy; SWL 300 Mt	Wind Indicator	3 x Ultrasonic Anemometer (Gill Instrument)
Tow Pins	1x electro-hydraulic retractable Karmoy; SWL 200 MT	DP	NAV DP4022
Rope Reel	1x electro-hydraulic, Pulling rate 10T @ 20 M/Min Drum Capacity : 1200 M (L) x 60 MM (dia) SWR	Joystick	NAV IJS 4002
		REF. System	(2 D.G.P.S fugro sea star) (1x Cyscan)
Reefer Points	2 x 4 pin x 32 A / 60 Hz		

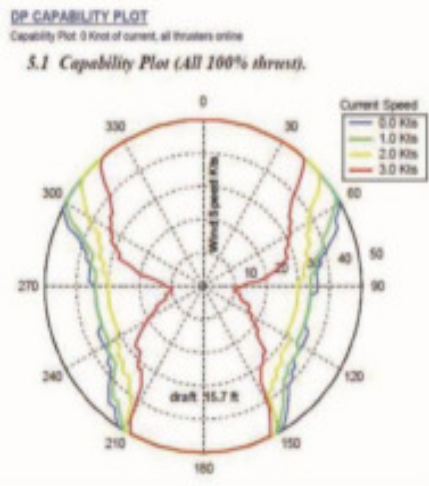
Cargo Capacities		Fire Fighting System	
Deck Cargo	600 T	External	
Deck Strength	5t / M ²	FIFI System	Class 1 with water curtain all round
Clear Deck Area	428 / M ²	Fire Pump	ABS P/S driven by front PTO of M/E Mid driven by BERG
Deck Length	33.0 M	Monitors (water/foam)	2 x 1560 M ³ / h @133 M /50 M at 70 M distance
Deck Width	13.0 M	Oil Dispersant System	spray nozzle: 2x1-1/4"
Fuel Oil	796 M ³	Internal	
Fresh Water	575 M ³	Emergency Fire Pump	1 x 35 M ³ /hr @ 60 M head; Pump quip
Ballast/Drill Water	410 M ³	Capacity: 68L x 17 cylindes	1 x 210 ltrs/min @ 300 bar
Liquid mud/Base Oil	408 M ³	CO2 system in engine room	Capacity: 68 L x 17 cylindes
Brine	199 M ³		
Cement Tank	206 M ³		
Freezer / Chiller	14 M ³ /10 M ³		
Foam / Detergent	20.0 M ³ /20.0 M ³		

Fire Detection & Alarm System in living spaces & engine room

Pumps	
Fuel Oil	200 M ³ / h x 60 M head
Fresh Water	200 M ³ / h x 60 M head
SWB/Drill Water	200 M ³ / h x 60 M head
Liquid Mud	80 M ³ / h x 60 M head Circulation system 50 M ³ / h x 60 M head
GS / Fire Pump	100 M ³ /h x 80 M head @ 35 kw

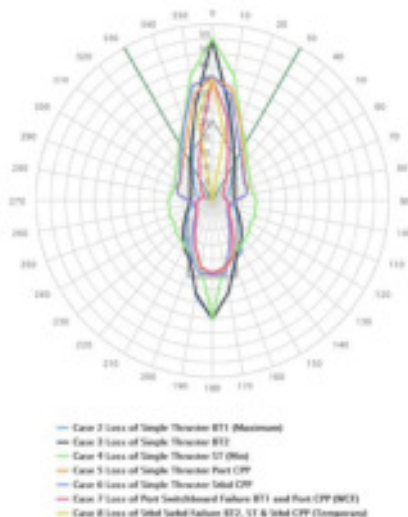
Safety And Environment	
Life rafts	4 x 25 Men SOLAS approved type
Fast Rescue Craft	1x9 Men Fast Rescue Boat / w 2 x 60 HP OBM 3 persons, ≥ 25 knots/Speed 9 persons, ≥ 8 knots
Oily Water Separator	1 x 1 M ³ / hr c/w 15 ppm alarm; Industmarine
Water Maker	1 x 10 M ³ / day Reverse Osmosis, Industmarine
Sewage Treatment Plant	1 x 40 Men (3120L/day); Hamworthy ST2A-C

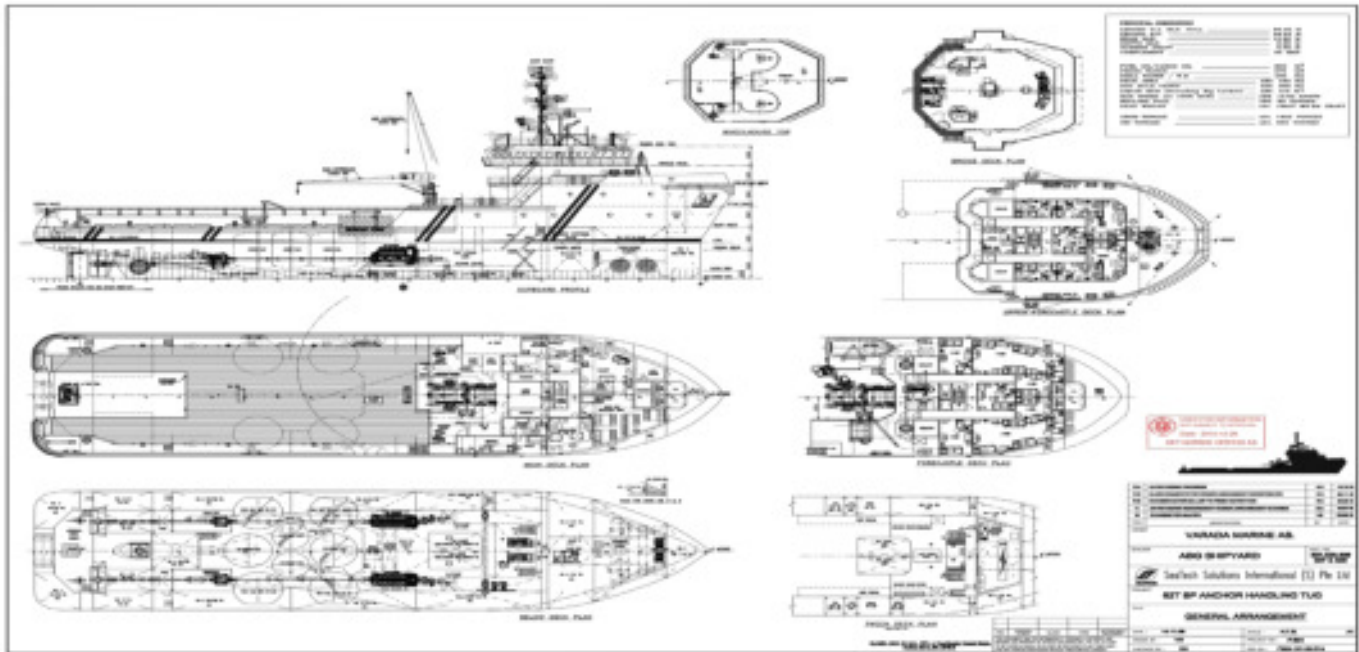
Accommodation	
Berth cabins	1 X 4
Berth cabins	2 X 8
Berth cabins	2 X 6
Berth cabins	1 X 1
Crew	12
Passengers	38
Total	50



TANK	UNITS = M ³					
	Fuel Oil	Fresh Water	Drill Water	Oil Based Mud	Brine	Ballast
Fuel (ft)	81.0 144.0 144.0 83.0 83.0 12.0 12.0 148.0 143.0					
Fresh water (ft)		121.0 121.4 86.5 86.5 38.0 31.1 81.1				
Drill water (ft)			104.4 114.3 114.3 33.5 32.5 32.5			
Oil Based Mud	88.5			88.5	88.5	88.5
Brine	88.5			88.5	88.5	88.5
	88.5			88.5	88.5	88.5
	88.5			88.5	88.5	88.5
	88.5			88.5	88.5	88.5
Total	1204.7	575.4	411.3	408.0	180.5	408.0

Listing wind speed in m/s - For L1 and L2 analysis the values are converted from the Beaufort scale





Draft Scale Table

SEA PEARL

DATE	TIME	DATE	TIME	Draught (M)	Displacement (T)	Deadweight (T)	Tons per centimetre of immersion	Moment to change trim 1 cm (T/M)	Freeboard (M)
09.03.11	19:47:08	09.03.11	19:47:08	6.0	4100	2300	8.9	41	0.8
				5.9	4000	2200			0.9
				5.8	3900	2100		40	1.0
				5.7	3800	2000	8.8		1.1
				5.6	3700	1900		38	1.2
				5.5	3600	1800	8.7		1.3
				5.4	3500	1700		36	1.4
				5.3	3400	1600	8.6	34	1.5
				5.2	3300	1500		32	1.6
				5.1	3200	1400	8.5	30	1.7
				5.0	3100	1300		28	1.8
				4.9	3000	1200	8.4	26	1.9
				4.8	2900	1100		24	2.0
				4.7	2800	1000	8.3	22	2.1
				4.6	2700	900		20	2.2
				4.5	2600	800	8.2	18	2.3
				4.4	2500	700	8.1	16	2.4
				4.3	2400	600	8.0	14	2.5
				4.2	2300	500	7.9	12	2.6
				4.1	2200	400	7.8	10	2.7
				4.0	2100	300	7.7	8	2.8
				3.9	2000	200	7.6	6	2.9
				3.8	1900	100	7.5	4	3.0
				3.7	1800	0	7.4	2	3.1
				3.6	1700		7.3		3.2
				3.5	1600		7.2		3.3
				3.4	1500		7.1		3.4
				3.3	1400		7.0		3.5
				3.2	1300				3.6
				3.1	1200				3.7
				3.0	1100				3.8
				2.9	1000				3.9
				2.8	900				4.0

DENSITY OF THE SEA WATER (T/M3) :	1.025
FREBOARD DEPTH (M) :	6.800
SUMMER DRAUGHT (FBS) (M) :	5.500
TROPICAL DRAUGHT (M) :	5.615
LIGHTSHIP WEIGHT (LWT) (T) :	1804.4

DEADWEIGHT SCALE

Final Incent Stability Booklet of 800 HP ANCHOR HANDLING TUG