


Geo Coral



VESSEL TECHNICAL SPECIFICATIONS

1. Maritime

A. VESSEL DETAILS

OWNER	GEO VESSELS AS
FLAG	NIS
PORT OF REGISTRY	BERGEN
BUILT / REBUILT	2010
CLASS	DNV
CLASS NOTATION	 1A1 Clean COMF (C-3, V-3) DK (+) HELDK (S,H) Ice (C) NAUT (AW) RP SF MON
IMO NUMBER	9492579
SHIP TYPE	Seismic Survey Vessel
CALL SIGN	LACA8
OVERALL LENGTH	108.3 m
BREADTH / BEAM	28.0 m
MAX DRAFT	7.5 m
GROSS TONNAGE	12812
NET TONNAGE	3844
DEADWEIGHT	4750 Dwt
FREEBOARD	2m (with 7.5m draft)
MAXIMUM LOAD SPEED	15.0 knots
CRUISING SPEED	14.0 knots
FUEL CAPACITY	MDO 800m3, HFO 1700m3
FUEL CONSUMPTION	Approx. 40m3 per day
LUBRICATING OIL CAPACITY	178m3 (120m3 LO & 58m3 HO)
FRESH WATER	Approx. 345m3
SEWAGE	DVZ-SKA-70'Biomaster
ROLL REDUCTION TANKS	Two passive tanks
WATER BALLAST	Yes
PROVISION ROOMS	2 rooms & freezers and cold storage. Mess seating 60 seats.
SAFE MANNING CERTIFICATE (MINIMUM)	16

B. PROPULSION

ENGINES	4 x Rolls Royce B32:40 L8A 2.CD 4x3840kW
TOTAL PROPULSION	2 x 4200 kW Siemens, 720 rpm
PROPELLERS	2 x KaMeWa controllable pitch
AZIMUTH THRUSTER	1 x retractable Brunvoll AR-80-LNC 2100, 1x 1500 kW
BOW THRUSTERS	1 x tunnel thruster 1200 kW
GENERATORS	4 x Rolls Royce B32:40 L8A 2.CD 4 x 3840kW
AUXILIARY GENERATOR	4 x Hyundai HSJ7 805-10P, 4 x 3685 kW (440V 60Hz)
EMERGENCY GENERATOR	1 x Mitsubishi DPMG-687, 50-60, 1 x 687.5 kVA
ELECTRICAL DISTRIBUTION	Siemens 6.6 kW
U.P.S.	Sirius 100kva 3-phase
BOLLARD PULL	160T

C. COMMUNICATION (Vessel)

COMMUNICATION SYSTEMS	
PORTABLE VHF	3 X JOTRON TR20
MAIN VHF	Furuno FM8800
MAIN HF RADIO	Furuno FS-1570/2570
VSAT / BRIDGE NUMBER	+47 2367 8540
INMARSAT A RECEIVERS & NUMBER	None
SAILOR 77 FLEET + NUMBERS	+ 870 765 123 092
INMARSAT C	2 x Furuno Felcom 15
INMARSAT M	Fleet 77
VSAT RECEIVERS & NUMBER	2
MARISAT RECEIVERS & NUMBER	None
WEATHER FACSIMILE	Furuno Fax-408
NAVTEX RECEIVER	Furuno NX700B
SAFETY	GMDSS
DATA TRANSFER	RX data rate = 896 kbps and TX data rate = 2944 kbps
EMERGENCY RADIO BEACON (EPIRB)	Ocean Signal E100G
SHIP/AIR CRAFT RADIO	2 x Jotron TR-810
RADAR TRANSPONDER	Ocean Signal S100 SART

D. NAVIGATION (Vessel)

NAVIGATION SYSTEMS	
RADARS	Furuno FAR-28x7 Furuno FAR-21x7 Sea Hawk SHX X12 High resolution radar x-band, 12ft antenna
GYRO COMPASS	SG Brown Meridian
AUTOPILOT	Kongsberg Maritime CJoy JS1, Anshutz NP2025
SPEED LOG	Furuno DS-80
ECHO SOUNDER	Furuno FE-700
ECDIS	Furuno Tecdis
STEERING SYSTEM (AUTOPILOT)	Kongsberg Maritime CJoy JS1, Anshutz NP2025
TRACKING SYSTEM	Kongsberg Maritime CJoy JS1
GPS	Furuno GP150
MAGNETIC COMPASS	1
WIND INDICATOR	Gill
AIS	Furuno FA150
VOYAGE RECORDER	Furuno VR3000

E. SAFETY

SAFETY EQUIPMENT	
MOB BOAT	Norsafe 750 Magnum
LIFEBOAT	2 x Schat harding (90 pax each)
EPIRB	Jotron Tron 40S mk2, Tron 45sx
LIFE RAFT	6 x Unitor Solas 25 pax (MOB 1 x 10 pax)
SURVIVAL SUITS	76 x Viking
LIVE VESTS	144 x Viking
WORK VESTS	40 x Seacrewsader 275N twin chamber with PLB 12 x sMRT 150N twin chamber with PLB
LIFE BUOYS	18
FRC	See MOB boat
SEISMIC WORKBOAT	2x Workboats (See section 4.D. for specifications)

F. FIREFIGHTING EQUIPMENT

FIREFIGHTING EQUIPMENT	
ENGINE ROOM	FlexiFog LoFlow M5 (Autronica)
SWITCHBOARD ROOM	Evergen
COMPRESSOR ROOM	Hand held extinguishers
INSTRUMENT ROOM	3 x portable CO2 5kg extinguishers
GUN SHACK	Portable CO2 5kg extinguishers
HAZCHEM STORAGE	2 x storage containers
GALLEY	Deep fat fryer wet chemical system Hand held extinguishers
ACCOMMODATION	Portable extinguishers (9l water, 5kg CO2)
TAPE STORE / RIGGING ROOM	-
STREAMER AREA AND CABLE REPAIR ROOM	Wheeled extinguishers (45l foam, 50kg DP). Fixed extinguishers (2 x 9l foam, 12kg D-class)
PAINT STORE	Water spray sprinkler
INCINERATOR	Fixed CO2 system
MAIN FOAM PUMP, AFFF FOAM MIXTURE	2 x Grundfors CRN1-23 E-P-G-EHQE
MAIN FIRE PUMP TYPE/FLOW	2 x Allweiler AM80-200/02U3.1D-S-W3 115m3/hr
EMERGENCY FIRE PUMP TYPE/FLOW	1 x Allweiler NB50-200 U3.1D-W3-ME3-42/350 50m3/hr
FIRE DETECTION MONITORING SYSTEM	Eltek
FIRE BLANKETS	1
HELIDECK FIRE PUMPS	2 x Allweiler NAM80-200/02U3.1D-S-W3

G. ACCOMMODATION

ARRANGEMENT	
CABIN TYPES	Single bed
TOTAL	69
CONFERENCE AND TRAINING ROOM	1x Conference room (20 seats) & 1x Auditorium (54 seats)
SAUNA AND FITNESS ROOM	Male & Female sauna and 1 x Gym

H. HELIDECK

EQUIPMENT & CERTIFICATION	
HELICOPTER DECK RATING	20.88 (26.1) 12.8T
FIRE FIGHTING	2 x Foam monitors, wheeled extinguishers (2 x CO2 10kg, 2 x DP 50kg)
NON DIRECTIONAL BEACON	TS-1B
SHIP/AIR COMMUNICATION	Jotron TR-810
MOTION WEATHER INFO	Kongsberg HMS-100

I. SEISMIC COMPRESSORS

COMPRESSORS	3 x LMF 62s/138-207-E60
TOTAL AIR CAPACITY	3 x 62 M3
NOMINAL SPARE AIR CAPACITY	600 l reservoir on air supply line
OPERATING AIR CAPACITY	3000 psi

2. MECHANICS

A. SOURCES

For Compressors details, please refer to Maritime section (1.1).

Number of Winches	8
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B. HYDRAULICS

BRAND OF PUMPS	Odim PP
NUMBER OF PUMPS	2
NOMINAL PRESSURE	210 bar

TOWING EQUIPMENT

TOWING EQUIPMENT	
TOW POINTS	16 fairleads on Odim towpoints
STREAMER WINCHES	16 Odim electrical
STORAGE WINCHES	11
WIDE-TOW WINCHES	2
WIDE-TOW SENSORS (LOAD CELLS)	2
STREAMER WINCHES SENSORS	16