

Alize



INTERNAL VESSEL TECHNICAL SPECIFICATIONS

1. MARITIME

A. VESSEL DETAILS

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| OWNER | GEO VESSELS AS |
| FLAG | RIF |
| PORT OF REGISTRY | MARSEILLE |
| BUILT / REBUILT | CHANTIERS DE L'ATLANTIQUE – FRANCE - 1999 |
| CLASS | B.V.1.3/3 E - Special Service, Seismic Survey Vessel, DEEPSEA, ICE, AUT, DEP. |
| CLASS NOTATION | PRSO/GCL/20070405140620 |
| IMO NUMBER | 9178159 |
| SHIP TYPE | SEISMIC SURVEY VESSEL |
| CALL SIGN | FNDQ |
| OVERALL LENGTH | 101.4 M |
| BREADTH / BEAM | WATERLINE 23.0 M/ OVERALL 29.0 M |
| MAX DRAFT | 7.562 M |
| GROSS TONNAGE | 11407 UMS TONS |
| NET TONNAGE | 3422 UMS TONS |
| DEADWEIGHT | 5986 MT |
| FREEBOARD | 2460 MM |
| MAXIMUM LOAD SPEED | 14.5 KNOTS |
| CRUISING SPEED | 14.0 KNOTS |
| FUEL CAPACITY | 2905 M³ HFO AND 1799 M³ DO |
| FUEL CONSUMPTION | 30/60 CUBIC METERS PER DAY DEPENDING OF THE CONFIGURATION |
| LUBRICATING OIL CAPACITY | 135.3 CUBIC METERS |
| ENDURANCE | ~85 DAYS |
| RANGE AT CRUISING SPEED | ~29500 NM |
| FRESH WATER | 258 M³ |
| FRESH WATER PRODUCTION | 2 X 15.0 M³ PER DAY |
| SEWAGE | SEWAGE 12 M³ |
| ROLL REDUCTION TANKS | 300 M³ |
| WATER BALLAST | 2278 M³ |
| PROVISION ROOMS | 270 M³ |
| SAFE MANNING CERTIFICATE (MINIMUM) | 15 CREW |

B. PROPULSION

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| ENGINES | ALSTOM 2x 4200 KW / 120 RPM |
| TOTAL PROPULSION | 8400 KW |
| PROPELLERS | 2 X FIXED PITCH (5 BLADES) |
| AZIMUTH THRUSTER | NO |
| BOW THRUSTERS | 1 TRANSVERSAL FORWARD 650 KW LIPS |
| STERN THRUSTERS | NO |
| GENERATORS | 4 WÄRTSILA 12V 32LNE 4650 KVA EACH |
| AUXILIARY GENERATOR | NIL |
| EMERGENCY GENERATOR | MAN 200 KW |
| ELECTRICAL DISTRIBUTION | 6.6 KV / 440V / 220 V 60 Hz |
| U.P.S. | SOCOMEK 2 x 100 KW |
| BOLLARD PULL | 170 TONS |

C. COMMUNICATION (Vessel)

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| COMMUNICATION SYSTEMS | |
| PORTABLE VHF | 1 x Gmdss Radio Station Sailor , 2 x GMDSS Radio Station Sailor RT4822 DSC 220/24V 1 Sailor C4901 3 portable VHF GMDSS Sailor SP 3110 MF/HF RADIO 1 MF/HF RADIO SAILOR 500 W. HC4500 220/ |
| MF/HF RADIO | 1 MF/HF RADIO SAILOR 500 W. HC4500 220/24V |
| INMARSAT A RECEIVERS & NUMBER | N/A |
| INMARSAT B RECEIVERS & NUMBER | N/A |
| INMARSAT C | 2 x SAILOR 24 V DC WITH GPS. 422602210; 422602211 |
| INMARSAT M | FLEET BROADBAND 250 – TEL: +870 773 232 991 |
| VSAT RECEIVERS & NUMBER | DUAL MARLINK SYSTEM – BRIDGE N° +47 2367 8191 |
| MARISAT RECEIVERS & NUMBER | ‘+870 2367 8195/+870 2367 8197 |
| WEATHER FACSIMILE | 1 FX 220 JMC |
| NAVTEX RECEIVER | 1 NT 900 JMC |
| SAFETY | AS PER VESSEL CLASS |
| DATA TRANSFER | Vsat |
| EMERGENCY RADIO BEACON (EPIRB) | 1 KANNAD 206WH |
| SHIP/AIR CRAFT RADIO | 1 ICOM – A200 |
| RADAR TRANSPONDER | 2 IESM |

D. NAVIGATION (Vessel)

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| NAVIGATION SYSTEMS | |
| RADARS | 1 FURUNO Raserscan ARPA F.A.R. 2835S S band 2 FURUNO Raserscan ARPA F.R. 2115 x band 3 FURUNO RASERSCAN ARPA F.A.R. 2825 X BAND |
| GYRO COMPASS | NAVIGAT X MK1 MOD.10, TYPE GMC PLATH |
| AUTOPILOT | NAVILOT AD II/G PLATH |
| SPEED LOG | DOPPLER FURUNO DS 50 |
| ECHO SOUNDER | SKIPPER GDS 101 + 1 FURUNO FE - 700 |
| ECDIS | No |
| STEERING SYSTEM (AUTOPILOT) | NAVILOT AD II/G PLATH |
| TRACKING SYSTEM | KONGSBERG CJOY ST CONTROLLER UNIT AND OPERATOR TERMINAL. |
| GPS | NR 51 MK III SERCEL AND KGP 912 KODEN |
| MAGNETIC COMPASS | NAVIPOL II PLATH |
| WIND INDICATOR | YOUNG 05106 |
| AIS | FURUNO FA 100 |
| VOYAGE RECORDER | FURUNO S-VDR |

E. SAFETY

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| SAFETY EQUIPMENT | |
| MOB BOAT | SEABEAR 23 MK III – 240 Hp |
| LIFEBOAT | 2 x 62 MEN FR. FASSMER & Co |
| EPIRB | KANNAD 406-PRO |
| LIFE RAFT | 4 x 25 MEN & 2 x 12 MEN & 1 x 6 MEN ZODIAC / VIKING |
| SURVIVAL SUITS | VIKING (74 UNITS) |
| LIVE VESTS | WESSEX SOLAS (138 UNITS) |
| WORK VESTS | Survitec 2010 Crewsader 275N / sMRT 150N all equipped with MOBILARM V100 PLBs |
| LIFE BUOYS | 24 – TOTAL NUMBER ACCORDING TO FRENCH REGULATION |
| FRC | SEE MOB BOAT |
| SEISMIC WORKBOAT | See <u>WORKBOAT</u> |

F. FIREFIGHTING EQUIPMENT

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| FIREFIGHTING EQUIPMENT | |
| ENGINE ROOM | CO2 / SPRAYED WATER (LAFF SYSTEM) |
| COMPRESSOR ROOM | EXTINGUISHER / SPRAYED WATER (LAFF SYSTEM) |
| INSTRUMENT ROOM | CO2 |
| GUN SHACK | EXTINGUISHER |
| HAZCHEM STORAGE | SEA WATER SPRINKLER |

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| GALLEY | CO2 |
| ACCOMMODATION | WATER HOSES + PORTABLE EXTINGUISHERS |
| TAPE STORE / RIGGING ROOM | EXTINGUISHER / CO2 / SPRAYED WATER (LAFF SYSTEM) |
| STREAMER AREA AND CABLE REPAIR ROOM | DELUGE NOZZLES AND FOAM IN STREAMERS AREA |
| PAINT STORE | WATER |
| INCINERATOR | FIXED CO2 / SPRAYED WATER (LAFF SYSTEM) |
| MAIN FOAM PUMP, AFFF FOAM MIXTURE | 1 X 7M³/H |
| MAIN FIRE PUMP TYPE/FLOW | 2 X 90M³/H |
| EMERGENCY FIRE PUMP TYPE/FLOW | 1 X 90M³/H |
| FIRE DETECTION MONITORING SYSTEM | CONSILIUM SEPCI CS 3000 |
| FIRE BLANKETS | 2 LOCATED IN THE GALLEY |
| HELIDECK FIRE PUMPS | MAIN FOAM / MAIN FIRE / EMERGENCY FIRE PUMPS |

G. ACCOMMODATION

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| ARRANGEMENT | |
| CABIN TYPES | Crew cabins: 25 (19 single + 3 double) TECHNICIAN CABINS: 38 (10 SINGLE + 14 DOUBLE) |
| TOTAL | 63 BERTHS (62 CREW MAXIMUM ALLOWED ONBOARD) |
| CONFERENCE AND TRAINING ROOM | 1 MEETING ROOM |
| SAUNA AND FITNESS ROOM | 2 FITNESS ROOMS |

H. HELIDECK

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| EQUIPMENT & CERTIFICATION | |
| HELICOPTER DECK RATING | D=22M; T-13.0T; AW139/EC225/S92 |
| FIRE FIGHTING | 2 FIXED FOAM MONITOR STATIONS |
| NON DIRECTIONAL BEACON | HOMING 410 KHZ TYPE SA 100 |
| SHIP/AIR COMMUNICATION | 2 ICOM type ICA 200 fixed VHF 2 ICOM TYPE IC-A3E MOBILE VHF |
| MOTION WEATHER INFO | HMS |

I. MOB

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| TYPE MOB BOAT | SEABEAR 23 MK III (HULL 1830) |
| MANUFACTURE | MARITIME PARTNER AS |
| LENGTH | 6.7 METERS |
| BEAM | 2.51 METERS |
| DRAUGHT | 0.40M |
| WEIGHT | 1895 KG |
| ENGINES | YANMAR 4LHA-STP |

SEISMIC COMPRESSORS

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|-----------------------------------|---------------------------------------|
| COMPRESSORS | 3 x LMF COMPRESSORS |
| TOTAL AIR CAPACITY | 1600 SCFM ≈ 2720 NM3/H |
| NOMINAL SPARE AIR CAPACITY | 3200 SCFM TOTAL |
| OPERATING AIR CAPACITY | 1600 SCFM (1 SPARE COMPRESSOR) |

SOURCES

For Compressors details please refer to Maritime section (0).

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| NUMBER OF WINCHES | 8 |
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M. HYDRAULICS

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| BRAND OF PUMPS | BERENDSEN |
| NUMBER OF PUMPS | 5 |
| NOMINAL PRESSURE | 250 BAR |

N. TOWING EQUIPMENT

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| TOWING EQUIPMENT | |
| TOW POINTS | 16 |
| STREAMER WINCHES | 16 |
| STORAGE WINCHES | 4 |
| WIDE-TOW WINCHES | 2 |
| WIDE-TOW SENSORS (LOAD CELLS) | 2 |
| STREAMER WINCHES SENSORS | 16 |
| VANE CAPACITY | 90 TONS |
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