

Oceanic Challenger



VESSEL TECHNICAL SPECIFICATIONS

1. MARITIME

A. VESSEL DETAILS

OWNER	Geo Vessels AS
FLAG	French Flag
PORT OF REGISTRY	Marseille
BUILT / REBUILT	2000 / 2006
CLASS	21667
CLASS NOTATION	Bureau Veritas I <input type="checkbox"/> HULL <input type="checkbox"/> MACH SPECIAL SERVICE - SEISMIC SURVEY VESSEL UNRESTRICTED NAVIGATION <input type="checkbox"/> AUT-UMS, MON-SHAFT, HEL(Y), SDS
IMO NUMBER	9194115
SHIP TYPE	Classified Cargo ship
CALL SIGN	FIEZ
OVERALL LENGTH	83.90 m / 91.30 m
BREADTH / BEAM	18.80 m
MAX DRAFT	7,4 m
GROSS TONNAGE	7127 UMS
NET TONNAGE	2139 UMS
DEADWEIGHT	3089 Tons (summer draft)
FREEBOARD	1.169 m (summer draft)
MAXIMUM LOAD SPEED	15 knots
CRUISING SPEED	13.5 knots
FUEL CAPACITY	2167 m3 (1993 m3 available @ 92%)
FUEL CONSUMPTION	45 m3 per day (average 10*8100m@100m sep)
LUBRICATING OIL CAPACITY	55m3 all LO tanks
ENDURANCE	28 days at 45m3 a day . 800 m3 kept as security stock
RANGE AT CRUISING SPEED	10 000 miles
FRESH WATER	700.0 m3
FRESH WATER PRODUCTION	Fresh water generator 15.0 m3/d + Osmosis 35.5 m3/d
SEWAGE	ECOMAR 24 sewage treatment plant + 25m3 Grey tank
ROLL REDUCTION TANKS	315 m3 stab tank
WATER BALLAST	568 m3 water tank
PROVISION ROOMS	2 x Dry Store, 2 x Freezer, 2 x Fridge
SAFE MANNING CERTIFICATE (MINIMUM)	15

B. PROPULSION

ENGINES	2x Ulstein Bergen BMV-12 5300 kW each
TOTAL PROPULSION	10600 kW (14400 BHP)
PROPELLERS	C/P propellers 2x3.6m in nozzle
AZIMUTH THRUSTER	Azimuth Thruster Retractable 883 kW
BOW THRUSTERS	2x 883 kW Tunnel Thrusters
STERN THRUSTERS	2x 662 kW Tunnel Thruster
GENERATORS	Shaft Generators: 2x 2800 kVA
AUXILIARY GENERATOR	Aux. Engines : 3x 590 kW
EMERGENCY GENERATOR	Emergency Generator : 1x 127 kW 2 x AEM SE500 1825 kW 440V 60Hz
ELECTRICAL DISTRIBUTION	440/220 V
U.P.S.	2 x DELPHYS DS 3/3 80 kVA Ver 2.21
BOLLARD PULL	145 tons

C. COMMUNICATION (Vessel)

COMMUNICATION SYSTEMS	
PORTABLE VHF	Sailor RT 4722 DUP & Sailor RT 2047 D Sailor VHF SP 3110 5 pcs.
MF/HF RADIO	Sailor MF/HF HC 4500
INMARSAT A RECEIVERS & NUMBER	N/A
INMARSAT B RECEIVERS & NUMBER	N/A
INMARSAT C	Sat C Telex 422801566 MMSI : 228 030 800
INMARSAT M	FBB IR : +870 773 163 645 F77 BRIDGE : +870 764 563 986 F77 PARTY MANAGER : +870 764 563 988
VSAT RECEIVERS & NUMBER	MARLINK VSAT Seismic Tel: +47 2367 8270 Party Manager office Tel: +47 2367 8278 Client office Tel: +47 2367 8271 Instrument Room (nav desk) Tel: +47 2367 8277 HSE Tel: +47 2367 8277 Medic Tel : +47 2367 8275 Processing room Maritime Tel: + 47 2367 6066 Bridge Tel: + 47 2367 6067 Captain's office
MARISAT RECEIVERS & NUMBER	None
WEATHER FACSIMILE	None

NAVTEX RECEIVER	JRC - NCR 333
SAFETY	As per vessel class
DATA TRANSFER	VSAT : Voice, Fax, E-Mail, ftp, http – Bandwidth 512kb/s
EMERGENCY RADIO BEACON (EPIRB)	1 Tron 40S
SHIP/AIR CRAFT RADIO	ICOM
RADAR TRANSPONDER	JXJTRONSART / 25433 JXJTRONSART / 27356

D. NAVIGATION (Vessel)

NAVIGATION SYSTEMS	
RADARS	1 x 10cm ARPA S-Band, Furuno FR-2135S 2 x 3cm TM X-Band, Furuno FR-2115 1 x Small target detection radar, Rutter
GYRO COMPASS	2 Meridian Surveyor + 1 Anschütz standard 20
AUTOPILOT	Simrad Robertson and C-Joy system Kongsberg
SPEED LOG	Furuno DS-70 Doppler speed log
ECHO SOUNDER	Furuno FE-700 & Kongsberg EA500
ECDIS	Navi-Sailor 4000 ECDIS Multifunction Display
STEERING SYSTEM (AUTOPILOT)	1 x C-Joy system Integrated Manoeuvring System
TRACKING SYSTEM	In AIS
GPS	SAAB R4
MAGNETIC COMPASS	Marine magnetic compass
WIND INDICATOR	Deif Malling Wind Meter
AIS	SAAB R4
VOYAGE RECORDER	Vessel Track

E. SAFETY

SAFETY EQUIPMENT	
MOB BOAT	MP 800 Springer
LIFEBOAT	None
EPIRB	2 x 101.5 MHz
LIFE RAFT	DSB & Viking: 2 pcs 20 man & 6 pcs 25 man
SURVIVAL SUITS	63
LIVE VESTS	120 + 6 children, + 2 in Eng Cont.room & 3 on bridge
WORK VESTS	Crew saver Twin Chamber – Approximately 40
LIFE BUOYS	12 Ring Buoys 2 with smoke floats, all with signal lights
FRC	See MOB Craft
SEISMIC WORKBOAT	See WORKBOAT

F. FIREFIGHTING EQUIPMENT

FIREFIGHTING EQUIPMENT	
ENGINE ROOM	CO2
COMPRESSOR ROOM	Portable CO2 and Powder
INSTRUMENT ROOM	CO2 & Foam Extinguishers
GUN SHACK	CO2, Dry Powder, Foam & Lithex Extinguishers
HAZCHEM STORAGE	CO2, Dry Powder, Foam & Lithex Extinguishers
GALLEY	CO2 & Foam Extinguishers
ACCOMMODATION	CO2 & Dry Powder Extinguishers
TAPE STORE / RIGGING ROOM	Water-hose and portable powder
STREAMER AREA AND CABLE REPAIR ROOM	Deluge nozzles in streamers room and Foam in cable repair
PAINT STORE	CO2
INCINERATOR	Fixed CO2 System
MAIN FOAM PUMP, AFFOAM MIXTURE	On main fire pump
MAIN FIRE PUMP TYPE/FLOW	Allweiler - 93 m3/hour
EMERGENCY FIRE PUMP TYPE/FLOW	Allweiler – 37.5 m3/hour
FIRE DETECTION MONITORING SYSTEM	Eltec
FIRE BLANKETS	2 located in galley
HELIDECK FIRE PUMPS	Pop spray

G. ACCOMMODATION

ARRANGEMENT	
CABIN TYPES	23x 1-berth cabins & 19x 2-berth cabins
TOTAL	61 berths / 59 Passengers Max
CONFERENCE AND TRAINING ROOM	Dedicated Client office. Dedicated meeting room.
SAUNA AND FITNESS ROOM	1 fitness room

H. HELIDECK

EQUIPMENT & CERTIFICATION	
HELICOPTER DECK RATING	SIKORSKY 92
FIRE FIGHTING	2 Fixed Foam Monitor Stations, 1 x 50 Kg Dry Powder, 2 x 25 Kg Dry Powder, 2 x 22 Kg CO2, 1x 9Kg CO2, 4 x 5 Kg CO2
NON DIRECTIONAL BEACON	TSS
SHIP/AIR COMMUNICATION	ICOM VHF Air Band
MOTION WEATHER INFO	SecRec HMS - ShoreConnection AS

I. SEISMIC COMPRESSORS

COMPRESSORS	3 x LMF compressors each 47/42 m³/min 1660/1500 CFM
TOTAL AIR CAPACITY	4800 SCFM total - 1 SCFM \approx 1,7 Nm³/h
NOMINAL SPARE AIR CAPACITY	800 SCFM – 2 Comps running
OPERATING AIR CAPACITY	3200 SCFM (2 compressors running)

2. MECHANICS

A. SOURCES

For Compressors details, please refer to Maritime section (1.I).

NUMBER OF WINCHES	8
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B. HYDRAULICS

BRAND OF PUMPS	Parker
NUMBER OF PUMPS	6
NOMINAL PRESSURE	Between 210 and 220 bars

C. TOWING EQUIPMENT

TOWING EQUIPMENT	ODIM WINCHES
TOW POINTS	12
STREAMER WINCHES	12
STORAGE WINCHES	0
WIDE-TOW WINCHES	2
WIDE-TOW SENSORS (LOAD CELLS)	Yes
STREAMER WINCHES SENSORS	Yes