

GEO OCEAN IV

Offshore Survey & Support Vessel



Picture: Port of Ostend



SUPPORT ACTIVITIES / VESSEL CAPABILITIES

The GEO OCEAN IV is a multi-disciplined Offshore Survey Vessel. With specifically selected equipment and capabilities for North Sea Survey and Support activities, she is the ideal candidate for the Oil & Gas and Renewable sectors .



TECHNICAL SPECIFICATION

General

Name	Geo Ocean IV
Port Registry	Luxembourg
Call Sign	LXHD
IMO Number	8704858
MMSI	253641000
Classification	BV
Vessel Type	Survey Vessel SV
Special Service:	Standby/Resue Vessel, Guard vessel
Unrestricted navigation	

Dimensions and Construction

Built:	Johs Kristensen Skibsbyggeri - Denmark 1989 (Conversion 2001/2010/2019)
LOA:	41,90 m
Width Moulded:	9,10 m
Draught Moulded:	5,2 m
Gross Tonnage:	723

Accommodation

Total Berths:	20 persons
Total Cabins:	19
Single cabins with shower and toilet:	13 x 1 person
Double cabins with shower and toilet:	6 x 2 persons

Crew

Min. Safemaning:	6 crew + 1 cook
Min. standby maning:	6 crew
MCA Standby:	12 crew

Capacities & delivery Rates

Main Deck area:	110 m ²
Max Deck Loading	15 tons

Safety Equipment

Search Lights:	1x 5000w with remote control from 3 positions 2x 1000w with manual handling
Helicopter Winch zone:	Free operational area on forecastle deck Second zone on aft deck
Rescue crafts:	Viking 4x25 persons

Fast Rescue Craft

1x ESVAGT STB 15C with modified forecastle to secure maximum trans-fer capabilities of personnel and goods. Rescue craft, self righting, rigid wiht inflatable tubes and with 2x 140HP Volvo Penta Diesel inboards. SOLAS approved for 15 persons.	
Rescue capacity:	100 persons

Propulsion & Machinery

Main propulsion:	High screw CP-propeller - no nozzle
Main Engine:	1 x 1,860 KW Wärtsila 12V 25F derated from 2900 KW, New 1992
Gear:	Reintjes gearbox for 1860 KW
Thrusters:	Retractable azimuth 450 KW independent driven by Cummins KTA19 diesel engine
Generators:	Brunvoll 184 KW Stern thruster, Brunvoll 184 KW Bow thruster, Mitsubishi 1x450kVA 380V 50Hz (aft engine room) Cummins 1x165kVA 380V 50Hz (fore engine room)
Emergency generator:	1 Valmet 80kVA 380V 50Hz

Speed & Consuption (Information only)

Approx. 13 kts	5m ³ / day
Approx. 10 kts	2,5m ³ /day
Approx. 7 kts	1,7m ³ /day
Standby	1m ³ /day

Tank capacity

Fuel capacity	87m ³
Drill Water	57m ³
Potable water	68m ³

Deck Equipment and Cranes

Winches:	1x 6t Hägglund anchor winch, type HOH2165 1x 14t Hägglund gilson winch, type HDH436,8
Crane:	1x Amco Veba 823M sea crane (12t/m) 1x1500HP hydr. Gear off the PTO

Electronics:

Radar:	Deca Bridgemaster Koden MD-3604
Echo sounder	Simrad skipper colour
Fuel Meter	OB 991
Radio Telephone	Skanti 400W
VHF	3x Sailor Compact RT 2048 3x Handheld VHF
UHF	Jotron Transiver Type Tr6102
Alarm System	OB 481
GPS Navigator	Koden KGP-900 Furono GP-50 MK3
Autopilot	Koden KS538
AIS	Furuno Universal FA-100
Electronic Seachart	Maxsea
Log	Simrad NL

Survey Sensors

MBES	Kongsberg EM2040-04 Dual Head
Single Beam	TC2122
Sound Velocity Sensor	AML Basic X2
Sidescan Sonar	Edgetech 4200
Sub Bottom Profiler	Dual Neptune with Silas EBP