GEO OCEAN VII

Offshore Survey Vessel

SUPPORT ACTIVITIES / VESSEL CAPABILITIES

GEO OCEAN VII is a multi-disciplined Offshore Vessel fitted as a (seismic) support vessel.
The Vessel is fitted for Geophysical and Geotechnical survey work.

The vessel is equipped with 30 berths, offshore crane and survey systems. Equipment can be rapidly deployed using the large stern A-Frame and survey winches. All together making the Geo Ocean VII a dynamic platform for subsea operations.

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GEO OCEAN VII

Offshore Survey & Support Vessel

TECHNICAL SPECIFICATION

General

Name:	Geo Ocean VII
Flag/ Port Registry:	Luxembourg
Call Sign:	LXAD2
IMO Number:	9212228
MMSI:	253000025
Vessel Type:	Survey Vessel SV
Service:	Tug - Supply vessel - Special service - Research
Navigation:	Unrestricted
Classification:	BV AUT-UMS; Station keeping system

Dimensions and Construction

Length Overall:	55.80 m
Breadth Moulded:	13.00 m
Depth Moulded:	6.60 m
Draught min. / max.:	4.20 m / 5.50 m
Gross / Net tonnage:	1,429 t / 407 t
Built:	Søviknes Yard AS, Norway - 2000 Conversion 2023

Accommodation

Total Cabins:	16 cabins
Single cabins:	2 x 1 person
Double cabins:	14 x 2 persons
Marine Crew:	10 persons
Project crew:	20 persons
Other Facilities:	Galley, Large Mess room, Day room,
Internet on board:	Starlink Maritime 60-350 Mbps down & 10-30 Mbps upload Latency <50 ms
Internet backup system:	Inmarsat

Capacities

Fuel capacity:	685 m^3
Transfer rate:	150 m^3/h at 8 bar
Fresh water:	123 m^3

Safety Equipment

Rescue boat:	1 x MP-741 Springer, Water jet.
Liferafts:	4 liferafts with capacity of 35 pers.

MACHINERY & PERFORMANCE

Propulsion - Machinery

Main engine:	2 x 2387 bhp, Ulstein Bergen Diesel 8 KRMB
Generators:	2 x 1000 kW Stamford Type.HC.M734 F2,
Propeller:	2 x 4 bladed Ulstein pitch propeller
Auxiliary Generator	1 x Volvo 390 kW
Emergency Generator:	1 x Valmet 66 kW
Bow Thruster:	1x Ulstein TCNC 73/50 - 180 Azimut 880 kW

Speed & Consumption

Max Speed:	14 knots
Transit Speed:	10 m^3/day @ 9 knots
Survey Speed:	3.5 m^3/day @ 4,5 knots
Stand-by port:	1.2 m^3/day

EQUIPMENT & ELECTRONICS

Deck Equipment

Deck crane:	ABAS, KDE60, 12m armwith 6t SWL
TS-Dip Winch:	AGO electric type - 3000 m Spectra rope

Special Equipment

Station Keeping:	Dynamic Positioning and Tracking (DP-T)
Survey A-frame:	5.7W x 11H - SWL 30 t
Instrument winches:	3 x survey winches
Moonpools:	3 x survey moonpool

Survey Installation

Positioning:	2 x Trimble BX992-INS
Multibeam:	Kongsberg EM2040-04 Dual Head
Singlebeam:	Kongsberg EA440
Motion sensors:	Ixblue Hydrins G4 SBG Apogee Navsight
USBL:	Kongsberg HiPAP 352P
Sound Velocity Profiler:	Valeport Swift SVP
SV Head:	Valeport mini SVS
Sidescan sonar:	Edgetech 4200
Magnetometers:	Geometrics G882
Sub-bottom profiler:	Innomar Medium SBP

Survey operations

UXO capability:	Horizontal and vertical gradient EIVA Scanfish
Seismic capability:	2D HR, 2D UHR and 3D UHR
ROV capability:	Frames for rapid mobilisation of WROV, IROV on back deck
Geotechnical & Environmental capability:	Vibrocorer (3/8m) Electric/hydraulic systems CPT 1.5 - 20 t systems Neptune / Manta Day / Van Veen Grabs Video transect system4

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