

GEO OCEAN VI

Hybrid propulsion Offshore Survey Vessel



SUPPORT ACTIVITIES / VESSEL CAPABILITIES

GeoOcean VI is a multi-disciplined Offshore Survey Vessel fitted for Geophysical and Geotechnical survey work. She is permanently equipped with specifically selected survey equipment to serve the offshore industry.

The hybrid propulsion makes her an efficient platform for a wide variety of survey operations.

TECHNICAL SPECIFICATION

General

Name	Geo Ocean VI
Flag	Luxembourg
Port Registry	Luxembourg
Call Sign	LXGY
IMO Number	9666716
MMSI:	253816000
Classification	LLOYDS - HULL - MACH
Vessel Type	Survey Vessel SV
Special Service:	Tug - Supply vessel - Special service - Research vessel
Navigation:	Unrestricted navigation - DP(No class.)

Dimensions and Construction

Length overall:	53.80 m
Breadth moulded:	13.00 m
Depth:	6.30 m
Max / Design draft:	4.80 m / 4.00 m
Deadweight: (approx @ max draft)	1,360 mt
Bollard pull @ Diesel - mechanical mode:	40 mt
Bollard pull @ boost mode:	50 mt
Gross / Net tonnage:	1,358 / 407
Builder	Grandweld Shipyards, Dubai
Year	2014

Accommodation

Total Berths	24 persons
Single cabins	2 x 1 person 1 sickbay cabin
Double cabins	13 x 2 persons
Offices	1 x Client office, 1 x Dedicated Online 1 x Dedicated Offline / Conference room
Other Facilities	Mess room, Day room, Gym, laundry, galley, dry provisions, freezer & cargo reefer rooms (+4°C & -21°C), stores, crew changing, Survey room.

Capacities

Deck area: (5 mt/m ²)	(23,00x10,20 m) approx. 230 m ²
Max Deck cargo:	205 mt
Domestic MDO: (@ 97 %)	276 m ³
Cargo MDO / Cargo HFO: (@ 97%)	70.8 m ³ / 894.4 m ³
Deliverable MDO / HFO cargo:	950 m ³
Fresh water	121 m ³
Ballast water:	519 m ³
Lub oil:	10 m ³
Thermal oil:	4 m ³
Cargo slops:	10 m ³

Delivery Rates

Cargo HFO / MDO:	2x 200 m ³ /h at 60 m
Cargo MDO:	50 m ³ /h at 60 m
Cargo fresh water:	50 m ³ /h at 60 m
Ballast / Fire pump:	.75 m ³ /h at 50 m
Bilge system:	75 m ³ /h at 50 m

Main cargo fuel oil tanks equipped with heating system to accept optional charterer supplied, plug and play 500 kW thermal oil heater (capable of heating 895 m³ HFO from 35°C to 50°C in less than 72 hours).

MACHINERY & PERFORMANCE

Propulsion - Machinery

Main Diesel engines:	2x 1,575 bhp
Auxiliary Diesel generators:	3x 550 kW
Electric motor plant:	2x 350 kW
Main propulsion:	2x Hybrid propulsion package on CP propellers
Bow tunnel thrusters:	2x 300 kW
Emergency generator:	1x 95 kW

SPEED & CONSUMPTION (@4,00m design draft)

Diesel—Mechanical mode:	11.8 t/day @ 11.0 knots
Diesel—Electrical mode:	3.0 t/day @ 6.0 knots
Boost mode:	15.4 t/day @ 11.5 knots

EQUIPMENT & ELECTRONICS

Deck Equipment

Windlass:	1x 10 mt pull @ 11 m/mn
Capstan (2 variable speeds):	5 t @ 15m/mn & 10 t @ 10 m/mn
Towing hook:	70 t SWL
Knuckle boom deck crane (electro-hydraulic):	3 mt @ 12 m
One A-frame / davit for Workboat:	10 t lifting capacity @ 30 m/mn

Electronics

NAVIGATION

2 radars with ARPA, 1 DGPS, 1 gyrocompas,
1 magnetic compas, 1 autopilot, 1 echo sounder, 1 speed log, 1 ECDIS.
Loading software.

COMMUNICATION

1 radio system compliant with GMDSS A3 rules:
- 2 VHF, 2 Inmarsat C, V-Sat, MF radio system, Navtex with printer,
- weather fax, AIS.
1 EPIRB, 1 Fleet broadband 500, 1 Inmarsat mini-C, 2 VHF, 2 UHF. 4
portable UHF, 3 portable VHF, Intercom & Public address system.

Safety Equipment

Life saving arrangement, 6 liferafts with capacity 12 pers.
1 fast rescue boat (6 pers) outboard engine 25 hp with davit.