

MV Ocean Vantage

Geotechnical Vessel



MV Ocean Vantage is a DP2 geotechnical vessel offering a range of drilling, in situ testing, laboratory testing and sampling services through a central moon-pool or via the vessel's 15-tonne stern A-frame.

Upgraded in 2016 the vessel is able to carry out geotechnical boreholes up to 500m depth using either a 5" API size drill pipe or Geobor S system. In situ data collection and push/piston sampling with wireline tools, seismic cone testing, PS logging, HPD testing and rock

coring. Improved HSE features include an automated pipe handling system. Furthermore the vessel is equipped with a 200kN thrust deep-push CPTU for deployment through the moon-pool with facilities to move this into position without any need for a port call.



Vessel details

Name	MV Ocean Vantage
Type	Geotechnical Survey Vessel
Year of build	1985
Year of conversion	2016
Flag	Panamanian
Classification	BV
IMO No/Call Sign	8405440 / HP6188

Dimensions

Length overall	68m
Beam	16.80m
Draft	6m
Moonpool	3.60 x 3.60m

Accommodation

Berths	35
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Propulsion and machinery

Main engine	4 x 1636 BHP Niigata Diesel
Propulsion	2 x 2040 BHP Niigata-Liaan Compass Thruster
Bow thrusters	2 x 910 BHP Tunnel
Maximum speed	12 knots
Cruising Speed	8 knots

Capacities

Fresh water	636m ³
Fuel oil	697m ³
Endurance	28 days

Dynamic Positioning

Type	DP2 (Marine Technologies LLC)
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Reference Systems	2 x Oceaneering C-Nav 3050 GNSS Sonardyne Ranger USBL Guidance Marine CyScan
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Navigation

Primary system	Oceaneering C-Nav
Secondary system	Furuno GP150
Tertiary system	Furuno GP150
Gyrocompass	1 x SG Brown 2 x ANSCHUTZ STD 22

Communications

Emergency GMDSS radio	3 x ICOM IC-GM1600
Navtex receiver	JRC NCR333
Sat-C	Sailor 6110 x2
MF/HF DSC	Sailor 6301
VHF ICOM	Sailor 6222 x2
Telephone system	DVB V-SAT
Satellite communications	Ku Band VSAT Fleet 500 Iridium

Deck area

A-frame	15 tonnes capacity
Crane	TMC-BS 300M4
4 point mooring system	4t Delta Flippers

Safety equipment

LSA and FFE compliance as per SOLAS requirements.

Vessel capabilities

Drilling system

Derrick	20m
Draw works	Hagglunds
Top drive	Dando MK 1000
Heave compensation	3m stroke (typical Hs of 1.5-2m)
Mud pump	AXG Duplex Power Pump
Mud tanks	2 x 4,000 litre, 1 x 6,000 litre
Drill string	5" API with 4" ID
Seabed frame	19.5 tonnes
Automated pipe handling	
Measurement of drill parameters	Jean Lutz Digital Recording

Downhole sampling and testing

1m/3m WISON-APB	CPTU/SCPTU 600m umbilica 1m Shelby sampler 1m Piston sampler
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Seabed sampling and testing

Deep push CPTU	200kN 40m
Shallow push CPTU	100kN
Piston corer	6m Kullenberg
Seismic CPTU	2m benthic trawl
Box corer (0.5m x 0.5m x 0.5m)	0.25m ² / 0.125m ³
Vibrocorer	3, 5 and 6m systems

Geotechnical laboratory

Sample extrusion	Particle size
Photography	Laboratory vane
Sample description	Fall cone
Torvane	UU Triaxial
Moisture content	Point load test
Bulk/dry density	Carbonate content determinations

Reporting

Offshore field reporting and real-time engineering analyses (e.g. jack-up leg penetration analysis and preliminary pile capacity analysis).



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