

Vessel Specification

OLV Venture 1

DP2 Diving
Support Vessel



OLV VENTURE 1 is a DP 2 Diving Support & Maintenance vessel, fitted with a 100T AHC MacGregor Crane, work class ROV, 12 man Saturation diving system, Moonpool Launching & Recovery, Helideck CAP 437 & ICAO Compliant and accommodation for 136 persons.

This vessel is suitable for deepwater operations such as:

- ☑ Deep-sea Lifting and installation up to 2,000m
- ☑ ROV Operations
- ☑ Diving Support
- ☑ Offshore Construction Support
- ☑ Inspection, repair and maintenance projects

PRINCIPAL PARTICULARS

Registry	: Port Kelang
Call Sign	: 9MVU3
Official No.	: 335771
Year Built	: 2015
Class	: ABS
Notation	: ✕A1, (E), Offshore Support Vessel, Fire Fighting Vessel Class-1, ✕AMS, ACCU, ✕DPS-2, DSV SAT
Type	: DP2 Multipurpose Subsea Support and Maintenance Vessel
IMO No.	: 9693915
Hull No.	: HT-102216
Flag	: Malaysia

Classification



Test./Cert. Guideline



IMCA D018/D023/D024
/OGP

The diving system is certified in accordance with IMO Resolution MSC.548(107) – International Code of Safety for Diving Operations, 2023, and holds a valid **Diving Unit Safety Certificate (DUSC)** Part II issued by **ABS**.

Disclaimer: This brochure is for promotional purposes only. All details are provided in good faith but without guarantee; Specifications are subject to change without notice and do not constitute an offer or contract. Interested parties are advised to verify all information through direct inspection of the vessel | Last revised: November 2025.



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DIMENSION

Length Overall	: 85.000 m
Length Waterline	: 81.128 m
Length BP	: 77.750 m
Breadth Moulded	: 22.000 m
Depth Moulded	: 8.000 m
Draft Moulded	: 6.300 m
GRT	: 4,857 MT
NRT	: 1,457 MT

PERFORMANCE

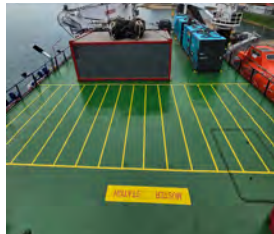
Maximum speed	: 12.5 knots
Economical speed	: 10.0 Knots
Type of fuel	: Marine Gas Oil

CAPACITIES

Clear Deck Area:



Main Deck 500 m²



Mezzanine Deck 250 m²

Deck Strength	: 7.5 MT/ m ² Uniform loading
Fuel Oil	: 1,150 m ³
Fresh Water	: 740 m ³
Heeling	: 440 m ³
Ballast water	: 280 m ³
Dispersant	: 20 m ³
Foam	: 20 m ³
Water Maker / RO Plant	: 2 x units. Rated 25T/day each unit

VESSEL ENDURANCE

Fuel consumption	: 10m ³ on DP
Enroute 85% @ 8.5 Knots	: 14 m ³
Endurance	: 60 days

DP2 DYNAMIC POSITIONING SYSTEM

Type	: Kongsberg K-Pos DP-21 & Cjoy
IMO Class 2	: Class 2
Reference System	: 2 x DGPS
	: 1 x CyScan
	: 1 x HIPAP 500
	: 3 x Wind sensors
	: 3 x Gyro
	: 1 x Taut wire Bandak MK15B

PROPULSION SYSTEM

Main Engine	: 2 x 3,000 BHP @ 800 rpm; Total 6,000 BHP
Main Propulsion	: 2 x Fixed pitch Azimuth Thruster
Bow Tunnel Thruster	: 2 x 12 MT controllable pitch
Shaft Driven Alternator	: 2 x 1,500 kW, 415V/3ph/50
Main Generator	: 3 x 800 kW, 415V/3ph/50, diesel driven
Emergency Generator	: 1 x 192 kW
Dive Generator	: 1 x 900 kW, 440/3ph/60
Emergency Dive Generator	: 1 x 300 kW, 440/3ph/60

ACCOMMODATIONS

Berths	: 8 x 1 berth cabin = 8
	: 20 x 2 berth cabin = 40
	: 22 x 4 berth cabin = 88
Total	: 136 berths
Hospital	: 1 x 2 berth
Meeting Room	: 1
Office	: 2 x Project Office, 1 x Client Office
Gym	: 1
Mess Room	: 54 seating
Chiller	: 35m ³
Freezer	: 35m ³
Mini Cinema Room	: 12 seating



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DECK EQUIPMENT

Anchor Windlass	: 1 x Electro-hydraulic for Ø 52 mm chain Rated 16 MT @ 12 m/ min
Anchor	: 2 x 3240kg high-holding type
Anchor Chain	: 550 m x Ø 58 mm each, port & starboard
Capstan	: 2 x 10 MT @ 15 m/ min
Tugger Winch	: 2 x 10 MT @ 15 m/ min
Main Crane	: 1 x 100 MT MacGregor AHC Knuckle Boom main subsea crane
Deck Crane	: 1 x 3 Tons @ 14.0-meter outreach

NAVIGATIONAL /COMMUNICATION EQUIPMENT

GMDSS	: Area A1 + A2 + A3
SSB	: 1 x Furuno
VHF Radio	: 2 x Furuno
SART	: 2 x Mc Murdo
Inmarsat-C	: 2 x Felcom
Satellite EPIRB	: 1 x McMurdo
2-Way VHF Radio	: 3 x Mc Murdo
Navtex Receiver	: 1 x Furuno
Radar	: 1 x X-Band Furuno/JRC and 1 x S-Band Furuno/JRC
Echo Sounder	: 1 x Furuno / JRC
DGPS Receiver	: 1 x R4 Navigation System
Gyrocompass	: 3 x Anschuetz or equivalent (Including DP2)
Autopilot	: 1 x Anschuetz or equivalent
Weather Fax	: 1 x Furuno / JRC
Speed Log	: 1 x Furuno / JRC
Magnetic Compass	: 1 x Cassens and Plath
Automatic Identification System	: 1 x Furuno

☒ **AIR DIVING SPREAD**
Permanently onboard

☒ **ROV**
Optional

LIFE SAVING / RESCUE APPLIANCE

Search Lights	: 3 x 2000 W
Floodlights	: 5 x 1000 W
Liferafts	: 4 x 25 men SOLAS Type (Port Side) : 4 x 25 men SOLAS Type (Starboard Side)
Lifebuoys	: 12 pcs with buoy lights
Life jackets	: 228 pcs
Immersion suit	: 186 pcs
Lifeboat	: 2 x 75 men
Air Breathing App	: 4 units
EEBD	: 8 units
Parachute Distress	: 12 units, SOLAS Type
Smoke Signal	: 12 Units, SOLAS Type

FIRE FIGHTING EQUIPMENT

(Meet FIFI Class 1 with Water Spray Curtain)

External FiFi Pump	: 2 x 2,000m ³ /hr @ 14 bar
Fire Monitor	: 2 x 1,200m ³ /hr @ 12 bar
Fixed System in E/R	: Co2 System
Firemain	: 1 unit c/w 12 hydrants
Fire Detection Sys.	: All living space and engine room
Fireman's Outfit	: 6 sets
Fire Blankets	: 2 units
Fire Axe	: 1 unit

HELIDECK

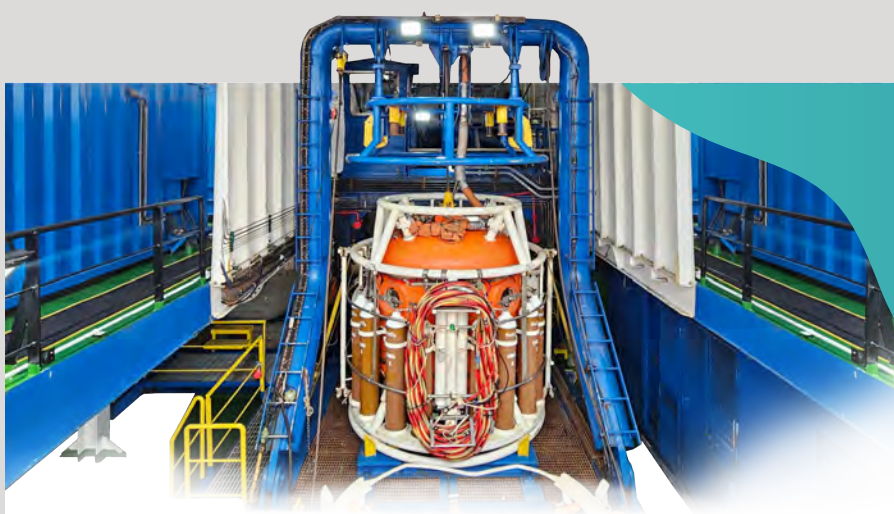
Suitable for helicopter type up to EC225

To be activated when required

D Value	: 22.20 m
T Value	: 9.3T
Helideck Height	: 75 ft

Details are given without warranty; interested parties should verify by inspecting the vessel
Last revised : November 2025





System Specification

OLV VENTURE 1

K-SAT-01

12-Man, 200 Meter
Saturation Diving System

MAIN PARTICULARS

Class	: American Bureau of Shipping (ABS)
Notation	: A1, Diving System
Design standard	: IMCA D018/D024
Depth rating	: 21 bar 200 msw

The Saturation Diving System is classified under the American Bureau of Shipping (ABS) and tested in accordance with the International Marine Contractors Association (IMCA) guidelines and certification requirements. The diving system is certified in accordance with IMO Resolution MSC.548(107) – International Code of Safety for Diving Operations, 2023, and holds a valid **Diving Unit Safety Certificate (DUSC) Part II** issued by ABS.



DIVE AND SATURATION CONTROL UNIT

Dive / Bell control panels comprising:

Diver gas reclaim control panel

Bell services controls:

- Electrics, communications and Analyzers, hot water temp monitoring, carbon dioxide and oxygen analysis of diver gases.
- Through water emergency communications, diver colour hat camera and video recording system controls.
- Bell internal video monitoring and controls

Chamber life support control panels DDC, TUP, SPHL comprising:

- Unscrambler communications sets
- Chamber depth and atmosphere monitoring and analysis
- Chamber CCTV video monitoring and gas distribution panel

POWER REQUIREMENTS

Power requirement	: 440 Vac 50/60Hz
Emergency generator	: 350 kVA
Compressed air	: 400 cfm @90 psi
Seawater	: 25 gpm @2-4 bar
Freshwater	: 5 gpm @ 2-3 bar

DIVING BELL (3-MAN)

- 3 x diver excursion umbilicals complete with reclaim hose
- 2+1 x diver helmet mounted colour cameras and lights
- Active Hydrocarbon gas detection system
- Onboard emergency gas and power
- Bell/diver communication system
- Through water communications
- Carbon dioxide scrubber system
- Divers hot water system
- Divers gas reclaim system
- Hydraulic bottom door system
- Telescopic stand-off frame
- Internal and external lights

Moonpool diameter size : 3.1 - 3.3 meter

Diving Bell Launch & Recovery with Passive Cursor and Aeration.

MAIN SKID AND DDC

- 'A' frame and bell trolley
- 9-man living chamber c/w 9 x bunk beds with mattresses
- 3-man living chamber c/w 3 x bunk beds with mattresses
- 10 x BIBS, 4 x HCU, 6 x carbon dioxide scrubbers, medical lock and communication
- D-MAS HyperSat Medical Monitoring System

TUP

- 4 x BIBS complete with dump
- 1 x toilet, shower, wash basin, 1 x HCU
- Carbon dioxide scrubbers and communications

WINCH SKID

- Main bell winch [hydraulic 10mT man riding]
- Guide wire winch [hydraulic 6mT double Reeves man riding]
- Umbilical sheave [hydraulic]
- Hydraulic power pack with 100% redundancy

OTHER EQUIPMENT

- 200m bell emergency umbilical
- 250m bell main umbilical with basket
- 3 x Jewel 601 reclaim hats
- 2 KMB x 18B bank mask
- Deck electrical / gas leads

MAIN CHAMBER INCLUDING BELL AND SKID

Length	: 12,800 mm
Width	: 3,700 mm
Height	: 7,000 mm
Weight	: 76,000 kg





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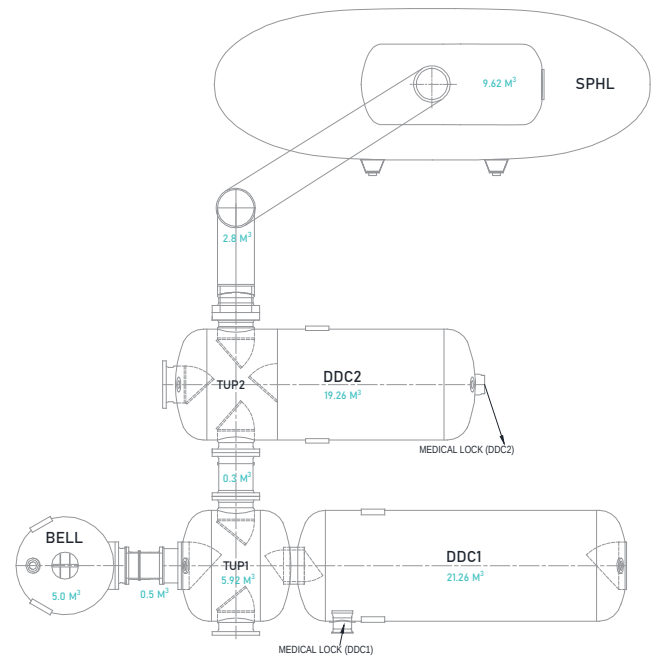
HYPERBARIC RESCUE UNIT - SPHL

- SELF-PROPELLED HYPERBARIC LIFEBOATS (SPHL)
- 1 x 12 person internal plus x 3-person external crew
- On-board emergency gas and battery power for 72 hours
- 12-man SPHL c/w full seat and approved safety helmets
- 12 x BIBs complete with dump, 6 x carbon dioxide scrubbers
- Lifting slings and towing line. Decompression panel, two-unit ECU
- Electrical & Hydraulic, two units of 24 V batteries.
- Auto & manual release mechanism, whisper generator [diesel-driven], sanitary facilities and come out door.

Weight	: 17.5 T
Length	: 9.5 m
Breadth	: 3.35 m
Height total	: 3.85 m
Max Speed	: 6 Knots
Survival Sustainable	: 72 hours



SYSTEM FLOODABLE VOLUME



SYSTEM FLOODABLE VOLUME:

1. BELL = 5.0 M³
2. TUP1 = 5.92 M³
3. DDC1 = 21.26 M³
4. D6 TO D10 = 0.3 M³
5. TUP2 & DDC2 = 19.26 M³
6. SPHL = 9.62 M³
7. D12 TO D14 = 2.8 M³
8. MANWAYS & MEDLOCKS = 0.5 M³

TOTAL FLOODABLE VOLUME: 64.66 m³



LIFE SUPPORT MACHINERY UNIT

- Electric main / Emergency distribution system
- Dual diver hot water unit (100% redundancy)
- Environmental control unit (100% redundancy)
- Chamber portable water unit (hot/cold)
- Divex Air Driven Gas Reclaim surface unit
- Main and Secondary power distribution panel

System Specification

OLV VENTURE 1

ASC/09

Surface Oriented Air Diving System



System Classification: American Bureau of Shipping (**ABS**)
Test./Cert Guideline : International Marine Contractors Association (**IMCA**)

The Air Diving System is classified under the American Bureau of Shipping (**ABS**) and tested in accordance with the International Marine Contractors Association (**IMCA**) guidelines and certification requirements. The diving system is certified in accordance with IMO Resolution MSC.548(107) – International Code of Safety for Diving Operations, 2023, and holds a valid **Diving Unit Safety Certificate (DUSC)** Part II issued by **ABS**.

DECK DECOMPRESSION CHAMBER

Design Code: ASME SECT VIII DIV 1, 2007, ASME PVHO-1, 2007
Material: SA 515 GR. 70N
Diameter Inside: 1500 mm
Width Overall: 1800 mm [with Chamber Skid]
Height: 1995 mm approx [including base skid]
Weight [approx]: 2998 Kg [empty]
Weight [approx]: 9576 Kg [full, water]
Volume: 6m³
Operating Pressure: 7.5 Bar.g
Hydro Test Pressure: 11.44 Bar.g
Design Temperature: 54.45°C
Corrosion Allowance: 2 mm
Electrical Requirements: 230V AC, 50 Hz, Single Phase

AIR DIVE CONTROL PANEL

Design Code: ABS Rules for Building and Classing Underwater Vehicles, System and Hyperbaric Facilities 2002
Operating Media: Air, Nitrogen, Oxygen
Panel Material: Electro-galvanised plate 3mm, Powder coated
Length Overall: 1250 mm
Height: 1950 mm
Weight [approx]: 500 Kg
Operating Pressure [Incoming]: 200 Bar.g
Pressure Relief Setting: 220 Bar.g
Operating Pressure [Outgoing]: 15 Bar.g
Pressure Relief Setting: 19 Bar.g
Design Temperature: 45°C
Electrical Requirements: 230V AC, 50Hz, Single Phase

AIR DIVING MACHINERIES

- 2 x Quincy LP Air Compressor
- 1 x Bauer Verticus HP Compressor
- 1 x Hydraulic Power Unit (HPU) for tooling

LAUNCH AND RECOVERY SYSTEM (LARS)

Design Code: ABS Rules for Building and Classing Underwater Vehicles, System and Hyperbaric Facilities 2002

Length Overall: 3710 mm
Width Overall: 2360 mm
Height: ~3710 mm
Weight [approx]: 3680 Kg
Design Load: 1.0 M. Ton
Design Temperature: 0-50°C

Man Riding Winch:

Pull Force: 1 M. Ton @ Full Drum
Drum Diameter: Ø508 mm
Drum Width: 203.2 mm
Wire Rope Diameter: Ø12 mm
Wire Rope Length: 100 m
Pressure: 90 psi
Flow: 250 scfm
Brake Force: 1500 kg
Weight: ~515 kg

Clump Weight Winch:

Pull Force: 1 M. Ton @ Full Drum
Drum Diameter: Ø508 mm
Drum Width: 203.2 mm
Wire Rope Diameter: Ø9 mm
Wire Rope Length: 200 m
Pressure: 90 psi
Flow: 250 scfm
Brake Force: 1500 kg
Weight: ~515 kg

DIVER STAGE (DIVE BASKET)

Design Code: ABS Rules for Building and Classing Underwater Vehicles, System and Hyperbaric Facilities 2002

Operating Media: Air, Nitrogen, Oxygen
Length Overall: 1468 mm
Width Overall: 1270 mm
Height: 2540 mm
Weight [approx, in air]: 380 Kg [including two gas cylinders; excluding tool box]
Design Load: 1.0 M. Ton
Design Temperature: 0-50°C

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