

Subsea Operations Vessel

The SOV is a modern DP2 subsea operations vessel. Equipped with a 50mT safe working load crane and accommodation for up to 126 personnel, the vessel has been deployed in a wide range of successful projects. These include ROV operations as well as saturation and air diving using Owner's in-house designed and built diving systems.

The 76m long SOV has a huge deck space of over 700m² and operates in dynamic positioning 2 mode. The vessel's adaptability makes it ideal for subsea construction support, inspection, repair and maintenance, abandonment and decommissioning support work.

Features:

- 76m DP2 subsea operations vessel with a 50mT SWL crane
- Fitted with a modular 12-man saturation diving system capable of operating at 200m depth
- Ideal for subsea construction support, IRM, abandonment and decommissioning support work
- Accommodates up to 126 personnel





Specifications

Subsea Operations Vessel -



PRINCIPAL PARTICULARS

Built/Delivered	2006/2007
Class	ABS
Notation	+ A1E Offshore Support Vessel, AMS + DPS2
Flag	Liberia
Port of Registry	Monrovia
IMO/Call sign	9358591 / A8LA8
Length Overall	76.00m
Breadth Moulded	20.00m
Depth Moulded	6.10m
Draft (max)	4.71m
GRT/NRT	3097 / 929

PROPULSION SYSTEM

Main Engines	2 x 2040kW; Wartsila 6L26A
Main Generators	3 x 534kW @ 1500rpm Caterpillar 3412 DITA c/w Stamford HCM 634G1 alternators rated at 500kW / 415Vac / 3ph / 50Hz
Emergency Generator	1 x 52kW @ 1500 rpm Olympian GEP 65-3 c/w Leroy Somer LL2014H alternators rated at 52kW / 415Vac / 3ph / 50Hz
Shaft Generator	2 x 1600kW @ 1000 rpm rated at 415Vac / 3ph / 60Hz
Bow Thruster	2 x 600kW electric-driven Wartsila LIPS Tunnel type (CPP); 10mT thrust
Propulsion	2 x Azimuth cpp type, Wartsila Lips

DECK EQUIPMENT

Anchor Windlass	1 x electro-hydraulic Mentrade HAW-GY48-01
Gypsies	Suited for 48mm (Dia) chains rated pull 15mT @ 9m/min
Warping Drum	400mm (Dia) x 450mm (L)
Anchors	2 x 2140kg high holding power type
Chains	440m (L) x 48mm (Dia) Grade U2 (each side)
Capstan	2 x 5mT @ 15m/min electro-hydraulic; Mentrade HVC 5T-01
Tugger Winch	2 x 10mT @ 15m/min electro-hydraulic; Mentrade HUW-10mT
Deck Crane (1)	1 x 50mT @ 15m outreach (Dy fac 1.3) / 10mT @ 30m outreach (Dy fac 2.0) electro-hydraulic TTS GPKO 1250-50-30
Deck Crane (2) Optional	1 x 5mT @ 9m marine crane, capable to 200m water depth
Mooring system	Mentrade HMW-40mT 4-pt system comprising:- 4 x electro-hydraulic single-drum winches 4 x 5mT Delta Flipper anchors Capacity: 4 x 500m (L) x 38mm (Dia) SWR (Note: actual length of wire spooled on varies) 12 vertical sheaves & 4 universal fairleaders
Drum Capacity	1200m (L) x 38mm (Dia) SWR (amount onboard varies)
Line Pull	40mT @ 0-10m/min @ 1st layer 10mT @ 0-30m/min @ 1st layer
Brake Capacity	90mT static @ 1st layer
Helideck	D=20 T=9.3mT, Super Puma

CAPACITIES

Deadweight	2000mT @ 4.6m draft
Deck Cargo	1000mT
Deck Strength	7.5mT/m ²
Clear Deck Area	700m ²
Fuel Oil	1050m ³
Fresh Water	1450m ³
Ballast / Drill Water	780m ³
Liquid Mud	210m ³ in dual purpose tanks with FO
Cement Tank	Nil
Freezer / Chiller	35m ³ / 35m ³

PERFORMANCE

Maximum Speed	11 knots
Economical Speed	10 knots
Type of fuel	Marine Gas Oil

PUMPS

Fuel Oil	1 x 200m ³ /hr @ 75m head; Azcue
Fresh Water	1 x 150m ³ /hr @ 75m head; Azcue
SWB / Drill Water	1 x 100m ³ /hr @ 40m head; Azcue
Liquid Mud	2 x 70m ³ /hr @ 85m head; (SG 2.5) Mission

OTHER FACILITIES

Mess room	Capacity for 100 pax c/w tables & chairs
Office	2 offices, each furnished for 1 person
Prayer room	1 fully carpeted prayer room
Workshop	1 workshop complete w/ basic tools & machinery

RADIO AND NAVIGATION EQUIPMENT

GMDSS	Furuno RC-1800mT (Area 3) comprising
SSB	1 x Furuno FS-2570 with built-in DSC watch receiver
Inmarsat C	1 x Furuno Felcom 15
VHF Radio	2 x Furuno Fm 8500 with built-in DSC watch receiver
Navtex Receiver	1 x Furuno NX 500 (518 khz)
SART	2 x McMurdo S4 (9GHz)
EPIRB	1 x McMurdo 406
Portable VHF Radios	3 x McMurdo R2
Radar	1 x Furuno FR 2115 1 x Furuno FR 2135-S
Echo Sounder	1 x Furuno FE 700
GPS	1 x Furuno GP 90
Gyrocompass	3 x Navigat x 4914CA (Sperry)
Autopilot	1 x Anschuetz Pilotstar D
Magnetic Compass	1 x Cassens & Plath Reflecta 1
Weather Fox	1 x Furuno FAX 207
Speed Log	1 x Furuno DS-80
AIS	1 x Furuno FA-100
DP System	1 x Kongsberg SDP21 incld: HIPAP500 System, 500mm Gate Valve SJS01 Independent joystick system 2 x MRU-D motion sensors, 1 x MRU-5, 2 x wind sensors 2 x DPS 116 DGPS POSREF 1 x LWT taut wire

Vessel also fitted with Vingtor ACM PA talkbalk system & self-powered telephones

FIRE-FIGHTING EQUIPMENT AND ANTI-POLLUTION EQUIPMENT

EXTERNAL:	
Helideck Fire Monitor	2 x 1,200m ³ /hr @ 12 bar, Unitor
Emergency Fire Pump	1 x 35m ³ /hr @ 45m head; Azcue
Oil Dispensant System	2 x 6m Alum spray boom c/w 6 nozzles ea
INTERNAL:	
Full flooding CO ₂ system in engine room	
Search Lights	2 x 2,000W Zhejiang Hai Xin
Floodlights	5 x 1,000W aqua signal
Liferafts	16 x 25 men SOLAS approved type
Lifeboat	1 x 75 men (Portside)
Rescue Boat	1 x 8 men inflatable c/w outboard motor
Water Maker	2 x 30m ³ /day reverse osmosis, Seany Tech
Oily Water Separator	1 x 1m ³ /hr Jiang Shu Nanji
Sewage Treatment Plant	1 x 200 men/day JuangShu Nanji WCB 50

ACCOMMODATION

Berths	6 x 1, 6 x 2, 27 x 4
Total Berths	124
Hospital	2 x 4 berth cabins