


## SAYAN Polaris – VS 4530 MPSV – SPS 60

General	
Design	VS 4530 MPSV
Built	Tersan Shipyard
Delivered	June - 2018
IMO	9755086
Call Sign	9HA4832
Flag	Malta
Port of Reg	Valetta
ERN	99.99.99.99



Class
DnV +1A1, SPS, Standby Vessel (NMD 270), Offshore Support Vessel Supply, LFL*, Ice 1A, BIS, Clean Design, DeIce, Dynpos AUTR, E0, FiFi II, Naut-OSV (A), Recycable, Comf V(3) C(3), DK (10 t/m <sup>2</sup> ), hl, (2.8 t/m <sup>3</sup> ), Oil Rec (Nofo 2009), SF

Dimension	Deck Capacities
Length overall: 89.10 m	Cargo deck area: 1040m <sup>2</sup> (max)
LPP: 80.30m	Cargo deck area: 1040m <sup>2</sup> (usable)
Breadth moulded: 22.00 m	Deck Capacity: 3600MT (VCG 1m)
Depth moulded: 9.00 m	Deck Strength: 10 MT/m <sup>2</sup>
Maximum draught: 7.20 m	GRT 5976
DWT at max draught: 5,895 tons	NRT 1793
	Accommodation: SPS 60.

Power and Propulsion	
<b>Main Engines:</b> 3 x Wartsila 8L26 3 x 2720 kW 3-phase synch. 690VAC Variable Frequency 1 x Harbor/Emerg generator 1 x 450 kW Total installed power 8610kW (11.537 BHP)	<b>Thrusters:</b> 2 x FP Tunnel thrusters fwd 2 x 1500 kW 1 x FP Azimuth thruster fwd 1 x 1200 kW 2 x FP Steerprop (Z-drives) 2 x 3000 kW Frequency controlled rpm

Simens BLUEDRIVE PlusC™ (Main Drives Unit)
The BLUEDRIVE PlusC™ control system is dynamically setting the speed according to the optimal operational point of the engines, the system secures by this lowest possible specific fuel consumption. During DP operation the advantages are substantial as production and spinning reserve can be realized with limited consumption, emission and maintenance cost. To lower the fuel consumption even more the system makes load shifting between the port and starboard part of the system possible. Up to 20% fuel saving compared to other Diesel electric, constant speed gensets

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Fuel Consumption figures (TBC)	Consumption figures (TBC)
6m Draft, calm water	5m Draft, calm water
10 knots 8MT/Day	10 knots 6.3MT/Day
12 knots 13.2MT/Day	12 knots 10.1MT/Day
15 knots 24.2MT/Day	15 knots 19.6MT/day
Harbour 1.1MT/Day	Harbour 1.1MT/Day

Accommodation	
Accommodation for 60 persons (SPS)	3 Conference Rooms
3 State Cabins (sep. bed-room)	1 Room Dedicated for future ROV Installation
11 x 1-man cabin	1 Mess room
19 x 2-man cabin	2 Day rooms
2 x 4-man cabin	1 Gymnasium
	1 Hospital

Deck Equipment	
1 el-hydr. knuckle boom crane	2 x Tugger winches (15mt)
Lifting capacity SWL 3t/15m, 2t/18m	(SB incl 300mtr towrope – NOFO 2009)
Working radius telescope out 18 m	2 x Capstans (10mt)
Hoisting speed: 75 m/min (Rescue).	6 x Cargo securing winch, 3 each side (2mt)
Dynamic Factor: 15%	Max Deck: 18,30m x 52,37m: 958m <sup>2</sup>
Approved for rescue basket and MOB Boat	Usable Deck: 18,30m x 49,18m: 900m <sup>2</sup>

Deck Equipment	Various
24pcs Power supply for fridge (7pcs) and freezer (12%) outlet.	Removable Bulwark at stern (7m x 1,8m) Hydraulic operated (NOFO 2009)
1 phase, 230 Volts, 50/60 Hz, 16 A fuse slow	Oil Radar according to NOFO Standard 2009

Various	
4 Sea chest High/Low w/ Ice chest	CCTV monitoring system, 15 cameras and 3 monitors, monitoring all machinery equipment and deck areas. Two motion sensors
2 Separate Sea inlets for FiFi pumps	

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<b>Cargo - Tank Capacities / Pumps</b>		
<b>Tank</b>		<b>Pump</b>
Ballast water/drill water	2861 m <sup>3</sup>	3x Allweiler vertical single-satge pump 150 m <sup>3</sup> /hr 90mlc 9 Bar 75 m <sup>3</sup> /hr 22mlc 9 Bar
Fresh water (14 dedicated)	814 m <sup>3</sup>	2x Allweiler vertical single-satge pump 150 m <sup>3</sup> /hr 90,4m head 8,9 Bar 80 m <sup>3</sup> /hr 22,6m head 8,9 Bar
Dry bulk (6 tanks)	328 m <sup>3</sup>	2 Segregated systems 2x Oil-injected rotary screw compressor 2x30,0 m <sup>3</sup> /oper. pressure 5,6 bar, max 6 bar
Base oil (3 combo – Mud/ORO)	500 m <sup>3</sup>	2 x 2- screw horizontal screw pump 100m <sup>3</sup> /hr 90mlc, 9,0 Bar
Fuel Oil (9 dedicated)	1359m <sup>3</sup>	2 x 2- screw horizontal screw pump 250 m <sup>3</sup> /hr 90mlc, 9 Bar
Liquid mud SG 2,8 (15 combo)	2323 m <sup>3</sup>	2 x 100m <sup>3</sup> /hr 90m head 24 Bar
Brine –SG 2,5 (8combo)	1500 m <sup>3</sup>	2 x horizontal eccentric screw pump 100m <sup>3</sup> /hr 90m head 20,3 Bar
ORO (14 tanks)	2050 m <sup>3</sup>	All NOFO 2009 approved
Methanol / Special Products SG 2,8 (4 combo Mud/ ORO) LFL* below 43°)	300m <sup>3</sup>	4 x Allweiler / Vogelsang 75m <sup>3</sup> / 90 mlc 12 Bar
Slop tank	45m <sup>3</sup>	1 x 2- screw horizontal screw pump 100 m <sup>3</sup> /hr 9 Bar
Dispersant 65m <sup>3</sup>		
4 manifolds, all outside cargo deck (in safe havens) two on each side and two PS/SB aft		
Mud Box installed on all filling lines		
15 Allweiler submerged hydraulic agitators		
The piping are arranged as two systems capable of discharging two types of bulks simultaneously through two separate discharge lines. Mucking ejector fitted. 2 fresh water cooled air dryers with automatic drain water Tank air vent system are fitted with two independent dust cyclones and collection system Tank Cleaning – VAMO 2/2,5/5 Ejector		
16 Tank washing machines (all in combo tanks) 10m <sup>3</sup> /hr – 12 bar – 60°C (T-82)		

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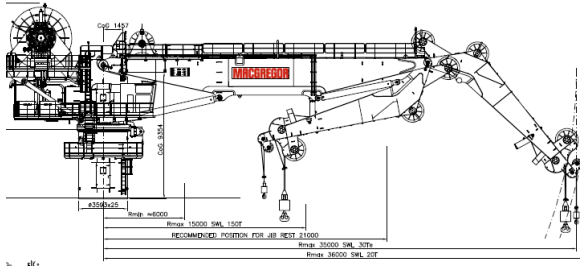
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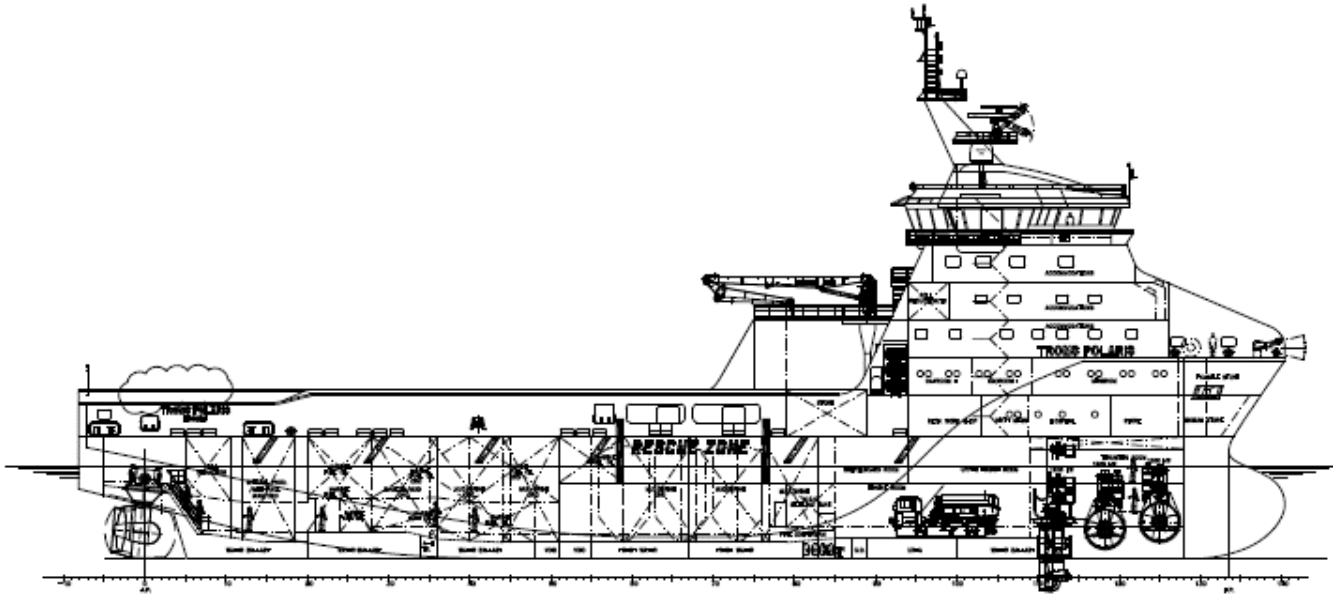
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FIFI II Equipment	MOB / Standby
<p>2 remote operated FiFi II monitors on wheelhouse top 1 remote operated FiFi II monitor on bow/mooring deck (Iceberg management)</p> <p>All 3600m<sup>3</sup>/hr Each</p> <p>2x FiFi pumps, 7200m<sup>3</sup>/hr (2x 3600) Permanently installed water spraying system with sprinkle nozzles and water shield nozzles</p>	<p>1 FRC min 10 Pax, 2 redundant engines with water jets, min 25 knots. Standby Vessel (S) 270 persons Life rafts 90 persons each side</p>

DP Interfaces & Position ref. systems	De-ice Equipment
<p>K-Pos DP-21 Included GreenDP® Control 3 Gyrocompass Interfaces. 3 MRU-D / 5 Interfaces. 1 RADIUS 1000 D Dual 1 CyScan Mk4 Laser Ref System 1 VDR. 3 Wind Sensor Interfaces. 3 DGPS Interface. RADIUS 700X EX Transponder</p>	<p>DNV Notation DEICE Category I &amp; II De-Ice for temperature up to -30 degrees Anti-Icing and anti-freezing to maintain surface temperatures of at least + 3 degrees</p>

150MT AHC 3000m Subsea crane (Option)	
<p>Prepared for 150MT AHC Subsea crane Feeders and cabinets for Crane are already in place 14m of PS cargo rail is removable 2x Roll Reduction tanks 1x Anti Heeling tank</p>	

2xWROV (Option)	Helideck (Option)
<p>Prepared for 2x WROV Mezzanine solution Alternative 2xWROV in Hangar ROV Control room already in place on B-Deck</p>	<p>Prepared for Helideck Structure and foundation in place D= 22,88m</p>



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