


SAYAN Polaris – VS 4530 MPSV

| General | |
|-------------|-----------------|
| Design | VS 4530 MPSV |
| Built | Tersan Shipyard |
| Delivered | May - 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, Delce, Dynpos AUTR, E0, FiFi II, Naut-OSV (A), Recycable, Comf V(3) C(3), DK (10 t/m2), hl, (2.8 t/m3), Oil Rec (Nofo 2009), SF |

| Dimension | Deck Capacities |
|--------------------------------|---------------------------------|
| Length overall: 89.10 m | Cargo deck area: 906m2 (max) |
| LPP: 80.30m | Cargo deck area: 824m2 (usable) |
| Breadth moulded: 22.00 m | Deck Capacity: 3450 MT (VCG 1m) |
| Depth moulded: 9.00 m | Deck Strength: 10 MT/m2 |
| Maximum draught: 7.20 m | GRT 6527 |
| DWT at max draught: 5,552 tons | NRT 1958 |
| | Accommodation: SPS 100. |

| Power and Propulsion | |
|---|---|
| Main Engines: | Thrusters: |
| 3 x Wartsila 8L26 3 x 2720 kW | 2 x FP Tunnel thrusters fwd 2 x 1500 kW |
| 3-phase synch. 690VAC Variable Frequency | 1 x FP Azimuth thruster fwd 1 x 1200 kW |
| 1 x Harbor/Emerg generator 1 x 450 kW | 2 x FP Steerprop (Z-drives) 2 x 3000 kW |
| Total installed power 8610kW (11.537 BHP) | 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. Up to 20% fuel saving compared to other Diesel electric, constant speed gensets |

Sevnor Limited

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| Accommodation | |
|-------------------------------------|-------------------|
| Accommodation for 100 persons (SPS) | 1 Conference room |
| 3 State Cabins (sep. bed-room) | 2 Mess room |
| 14 x 1-man cabin | 1 Day room |
| 37 x 2-man cabin | 1 Gymnasium |
| 3 x 4-man cabin | 1 Hospital |

| Cargo - Tank Capacities / Pumps | |
|---|--|
| Tank | Pump |
| Ballast water/drill water 2861 m3 | 3x Allweiler vertical single-satge pump 150 m ³ /hr 90mlc 9 Bar 75 m ³ /hr 22mlc 9 Bar |
| Fresh water (14 dedicated) 814 m3 | 2x Allweiler vertical single-satge pump 150 m ³ /hr 90,4m head 8,9 Bar 80 m ³ /hr 22,6m head 8,9 Bar |
| Dry bulk (5 tanks) 273 m3 | 2 Segregated systems 2x Oil-injected rotary screw compressor 2x30,0 m3/oper. pressure 5,6 bar, max 6 bar |
| Base oil (3 combo – Mud/ORO) 500 m3 | 2 x 2- screw horizontal screw pump 100m ³ /hr 90mlc, 9,0 Bar |
| Fuel Oil (9 dedicated) 1359m3 | 2 x 2- screw horizontal screw pump 250 m ³ /hr 90mlc, 9 Bar |
| Liquid mud SG 2,8 (15 combo) 2323 m3 | 2 x 100m ³ /hr 90m head 24 Bar |
| Brine –SG 2,5 (8combo) 1520 m3 | 2 x horizontal eccentric screw pump 100m ³ /hr 90m head 20,3 Bar |
| ORO (13 tanks) 2072 m3 | All NOFO 2009 approved |
| Methanol / Special Products SG 2,8 (4 combo Mud/ ORO) LFL* below 43° 307 m3 | 4 x Allweiler / Vogelsang 75m3 / 90 mlc 12 Bar |
| Slop tank 44 m3 | 1 x 2- screw horizontal screw pump 100 m ³ /hr 9 Bar |
| Dispersant 73 m3 | |
| 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) 10m3/hr – 12 bar – 60°C (T-82) | |

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| Deck Equipment | |
|---|--|
| 1 el-hydr. knuckle boom crane Lifting capacity SWL 3t/15m, 2t/18m Hoisting speed: 75 m/min (Rescue). Dynamic Factor: 15% Approved for rescue basket and MOB Boat 1 el-hydr. boom crane Lifting capacity SWL 15t/4-13,5m Hoisting speed: 20 m/min (empty hook) Dynamic Factor: 17% | 2 x Tugger winches (15mt) (SB incl 300mtr towrope – NOFO 2009) 2 x Capstans (10mt) 6 x Cargo securing winch, 3 each side (2mt) Max Deck: 18,30m x 52,37m: 906m ² Usable Deck: 18,30m x 45,03m: 824m ² |

| Various | |
|---|--|
| 4 Sea chest High/Low w/ Ice chest 2 Separate Sea inlets for FiFi pumps | CCTV monitoring system, 15 cameras and 3 monitors, monitoring all machinery equipment and deck areas. Two motion sensors |
| Removable Bulwark at stern (7m x 1,8m) Hydraulic operated (NOFO 2009) | Oil Radar according to NOFO Standard 2009 |

| FIFI II Equipment | MOB / Standby |
|--|---|
| 2 remote operated FiFi II monitors on wheelhouse top 1 remote operated FiFi II monitor on bow/mooring deck (Iceberg management) All 3600m ³ /hr Each 2x FiFi pumps, 7200m ³ /hr (2x 3600) Permanently installed water spraying system with sprinkle nozzles and water shield nozzles | 1 FRC min 10 Pax, 2 redundant engines with water jets, min 25 knots. 2 Lifeboats each 50 persons Standby Vessel (S) 270 persons Life rafts 105 persons each side |

| DP Interfaces & Position ref. systems | De-ice Equipment |
|--|---|
| 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 | DNV Notation DEICE Category I & II De-Ice for temperature up to -30 degrees Anti-Icing and anti-freezing to maintain surface temperatures of at least + 3 degrees |

Particulars believed to be correct, but without guarantee. Revision 28/05/2019

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