


SAYAN Polaris – VS 4530 MPSV

General	
Design	VS 4530 MPSV
Built	Tersan Shipyard
Delivered	May - 2018
IMO	9755086
Call Sign	UAJA
Flag	Russian Federation
Port of Reg	Archangelsk
ERN	99.99.99.99



Class
KM * IA Super Arc5 (machinery) AUT1 FF2 DYNPOS-2 ECO IWS COMF (N-3, V-3) Oil recovery ship Special purpose ship Standby vessel Supply vessel (OS).

Dimension	Deck Capacities
Length overall: 89.10 m	Cargo deck area: 906m ² (max)
LPP: 80.30m	Cargo deck area: 824m ² (usable)
Breadth moulded: 22.00 m	Deck Capacity: 3450 MT (VCG 1m)
Depth moulded: 9.01 m	Deck Strength: 10 MT/m ²
Maximum draught: 7.20 m	GRT 6527
DWT at max draught: 5,552 tons	NRT 1958
	Accommodation: SPS 100.

Power and Propulsion	
Main Engines: 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)	Thrusters: 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. 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 04/11/2020

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