

OIL ANALYSIS REPORT



GENESIS VOLVO PENTA 10132167580 - 4 DIESEL ENGINE

Sample No: VPA036227
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA036227	VPA055536	VPA05929134	VPA05929135
Sample Date	29 Apr 2024	25 Mar 2024	21 Aug 2023	20 Aug 2023
Machine Hours	2506	2115	0	1
Oil Hours	0	0	1	1
Oil Changed	N/A	N/A	Changed	Changed
Sample Status	NORMAL	ATTENTION	SEVERE	ATTENTION

WINDSERVE MARINE
 10 MACNAUGHT ST
 NORTH KINGSTOWN, RI
 US 02852
 Contact: Ryan Linn
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.0	12.98	12.98
Base Number (BN)	mg KOH/g	7.5	9.5	9.8	9.8
Oxidation (PA)	%	49	61	72	72

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.2	0	0
Nitration (PA)	%	49	58	43	43
Sulfation (PA)	%	48	54	57	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	8	17	17
Sodium	ppm	<1	1	3	3
Potassium	ppm	2	0	3	2

WEAR METALS

Iron	ppm	7	9	2	2
Copper	ppm	2	2	2	2
Lead	ppm	<1	0	0	0
Tin	ppm	<1	1	<1	<1
Aluminum	ppm	2	<1	0	0
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	62	60	45	44
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	0	<1	<1

ADDITIVES

Calcium	ppm	1026	1052	1764	1744
Magnesium	ppm	953	963	395	394
Zinc	ppm	1251	1274	1087	1079
Phosphorus	ppm	1086	1074	902	899
Barium	ppm	0	0	0	0
Boron	ppm	3	3	76	76

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: VPSENNOR
Unique No: 11015838
Signed: Jonathan Hester
Report Date: 08 May 2024

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VOLVO PENTA

GRAPHS

