

OIL ANALYSIS REPORT



GENESIS VOLVO PENTA 10132167933 - 2 DIESEL ENGINE

Sample No: VPA052203
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA052203	VPA036199	VPA036127	VPA045092
Sample Date	29 Apr 2024	25 Mar 2024	21 Aug 2023	20 Aug 2023
Machine Hours	2497	2115	0	0
Oil Hours	0	0	7	1
Oil Changed	N/A	N/A	Changed	Changed
Sample Status	NORMAL	ABNORMAL	SEVERE	SEVERE

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	12.9	13.1	13.01	12.88
Base Number (BN)	mg KOH/g	9.1	9.5	9.9	9.9
Oxidation (PA)	%	58	61	72	72

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.3	0	0
Nitration (PA)	%	53	61	43	43
Sulfation (PA)	%	53	55	56	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	16	16
Sodium	ppm	<1	<1	3	3
Potassium	ppm	2	0	3	3

WEAR METALS

Iron	ppm	9	9	2	2
Copper	ppm	1	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	61	60	45	45
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	1015	1077	1759	1755
Magnesium	ppm	945	971	394	394
Zinc	ppm	1250	1260	1086	1078
Phosphorus	ppm	1085	1094	900	888
Barium	ppm	0	0	0	0
Boron	ppm	1	6	76	77

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: 11015840
Signed: Jonathan Hester
Report Date: 08 May 2024

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VOLVO PENTA

GRAPHS

