

OIL ANALYSIS REPORT

VOLVO PENTA

15244 VOLVO PENTA 2006021368 - PORT DIESEL ENGINE

Sample No: VPA057186
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA057186	VPA059111	VPA047929	VPA037651
Sample Date	27 Mar 2024	30 Nov 2023	09 Nov 2022	21 Apr 2021
Machine Hours	1126	1121	1111	1009
Oil Hours	100	0	0	0
Oil Changed	Not Changd	N/A	N/A	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

W J Clark Inc
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 F:

OIL CONDITION

Visc @ 100°C	cSt	14.0	13.3	13.8	14.5
Base Number (BN)	mg KOH/g	9.5	9.1	10.9	---
Oxidation (PA)	%	61	64	66	70

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0.1	0
Nitration (PA)	%	48	47	59	53
Sulfation (PA)	%	53	55	59	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	3	2	2
Sodium	ppm	1	0	0	2
Potassium	ppm	2	6	3	10

WEAR METALS

Iron	ppm	1	3	7	3
Copper	ppm	0	1	2	<1
Lead	ppm	0	0	<1	1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	5	2	3	<1
Chromium	ppm	<1	0	0	<1
Molybdenum	ppm	36	16	53	<1
Nickel	ppm	<1	0	0	1
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	<1

ADDITIVES

Calcium	ppm	1450	1778	1213	2226
Magnesium	ppm	490	231	791	16
Zinc	ppm	1168	1073	1247	1222
Phosphorus	ppm	961	950	1046	1034
Barium	ppm	0	0	0	0
Boron	ppm	64	140	19	210

Diagnosis

No corrective action is recommended at this time. 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 acceptable for the time in service.

Depot: VP151520
Unique No: 10952476
Signed: Doug Bogart
Report Date: 31 Mar 2024

OIL ANALYSIS REPORT



GRAPHS

