

OIL ANALYSIS REPORT

VOLVO PENTA

GALATI PO 105260 VOLVO PENTA A1062311 - PORT DIESEL ENGINE

Sample No: VPA044455
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA044455	VPA031381	VPA037958	---
Sample Date	14 Aug 2023	11 Jul 2022	02 Jun 2021	---
Machine Hours	211	172	70	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ATTENTION	NORMAL	NORMAL	---

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610 Mount Vernan St
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OIL CONDITION

Visc @ 100°C	cSt	13.4	13.4	13.7	---
Base Number (BN)	mg KOH/g	9.4	7.6	---	---
Oxidation (PA)	%	55	48	54	---

CONTAMINATION

Soot %	%	0.3	0.3	0.1	---
Nitration (PA)	%	48	58	40	---
Sulfation (PA)	%	52	52	54	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	12	20	11	---
Sodium	ppm	3	3	4	---
Potassium	ppm	4	9	1	---

WEAR METALS

Iron	ppm	▲ 110	136	30	---
Copper	ppm	16	30	4	---
Lead	ppm	2	7	<1	---
Tin	ppm	<1	2	<1	---
Aluminum	ppm	9	23	4	---
Chromium	ppm	8	9	2	---
Molybdenum	ppm	63	67	75	---
Nickel	ppm	3	3	<1	---
Titanium	ppm	<1	<1	0	---
Silver	ppm	0	1	0	---
Manganese	ppm	1	1	<1	---
Vanadium	ppm	<1	<1	<1	---

ADDITIVES

Calcium	ppm	1141	1287	1318	---
Magnesium	ppm	988	892	771	---
Zinc	ppm	1260	1253	1111	---
Phosphorus	ppm	1050	1010	953	---
Barium	ppm	0	0	0	---
Boron	ppm	2	17	58	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Cylinder, crank, or cam shaft wear is indicated. All other 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: VP945077
Unique No: 10609123
Signed: Doug Bogart
Report Date: 22 Aug 2023

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GRAPHS

