

OIL ANALYSIS REPORT

VOLVO PENTA

JAMES E CARLSON VOLVO PENTA A1054025 - PORT DIESEL ENGINE

Sample No: VPA036994
Oil Type: SHELL ROTELLA T4 15W40

SAMPLE INFORMATION

Sample Number	VPA036994	VPA044807	---	---
Sample Date	10 Oct 2023	25 Oct 2022	---	---
Machine Hours	238	206	---	---
Oil Hours	32	74	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	ATTENTION	ATTENTION	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 14.6	█ 14.6	---	---
Base Number (BN)	mg KOH/g	█ 7.6	█ 7.6	---	---
Oxidation (PA)	%	█ 65	█ 63	---	---

CONTAMINATION

Soot %	%	█ 0.4	█ 0.6	---	---
Nitration (PA)	%	█ 60	█ 69	---	---
Sulfation (PA)	%	█ 57	█ 55	---	---
Glycol	%	█ NEG	█ NEG	---	---
Fuel	%	█ <1.0	█ <1.0	---	---
Silicon	ppm	█ 11	█ 16	---	---
Sodium	ppm	█ 4	█ 4	---	---
Potassium	ppm	█ 12	█ 14	---	---

Diagnosis

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.

WEAR METALS

Iron	ppm	▲ 92	▲ 112	---	---
Copper	ppm	█ 14	█ 24	---	---
Lead	ppm	█ 2	█ 3	---	---
Tin	ppm	█ <1	█ 2	---	---
Aluminum	ppm	█ 8	█ 12	---	---
Chromium	ppm	█ 6	█ 7	---	---
Molybdenum	ppm	█ 3	█ 10	---	---
Nickel	ppm	█ 2	█ 2	---	---
Titanium	ppm	█ 0	█ <1	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	█ 0	█ 0	---	---

ADDITIVES

Calcium	ppm	█ 2165	█ 2064	---	---
Magnesium	ppm	█ 41	█ 95	---	---
Zinc	ppm	█ 1193	█ 1175	---	---
Phosphorus	ppm	█ 1018	█ 974	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 168	█ 114	---	---

Depot: VP153811
Unique No: 10700626
Signed: Don Baldrige
Report Date: 20 Oct 2023

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GRAPHS

