

OIL ANALYSIS REPORT

VOLVO PENTA

SAMO SAMO VOLVO PENTA 20132091283 - CENTER LEFT DIESEL ENGINE

Sample No: VPA049956

Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

SAMPLE INFORMATION

Sample Number	VPA049956	VPA046336	---	---
Sample Date	02 Nov 2023	05 Apr 2023	---	---
Machine Hours	303	202	---	---
Oil Hours	50	202	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	NORMAL	MARGINAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	█ 13.0	---	---
Base Number (BN)	mg KOH/g	█ 9.8	█ 7.5	---	---
Oxidation (PA)	%	█ 53	33	---	---

CONTAMINATION

Soot %	%	█ 0.2	█ 0.4	---	---
Nitration (PA)	%	█ 43	46	---	---
Sulfation (PA)	%	█ 50	42	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 11	▲ 32	---	---
Sodium	ppm	█ <1	█ 1	---	---
Potassium	ppm	█ 4	█ 49	---	---

WEAR METALS

Iron	ppm	█ 6	█ 25	---	---
Copper	ppm	█ 6	█ 23	---	---
Lead	ppm	█ 0	█ <1	---	---
Tin	ppm	█ 0	█ 3	---	---
Aluminum	ppm	█ 2	▲ 26	---	---
Chromium	ppm	█ <1	█ 0	---	---
Molybdenum	ppm	█ 52	█ 4	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	█ 0	█ 0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 0	█ 3	---	---
Vanadium	ppm	█ 0	█ 0	---	---

ADDITIVES

Calcium	ppm	█ 991	█ 1128	---	---
Magnesium	ppm	█ 898	█ 987	---	---
Zinc	ppm	█ 1190	█ 1323	---	---
Phosphorus	ppm	█ 1017	█ 1061	---	---
Barium	ppm	█ 5	█ 0	---	---
Boron	ppm	█ 0	█ 3	---	---

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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 acceptable for the time in service.

Depot: VP694356
Unique No: 10729262
Signed: Sean Felton
Report Date: 09 Nov 2023

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GRAPHS

