

OIL ANALYSIS REPORT

**VOLVO
PENTA**

ROBERT LADNEY DETROIT ROBERT LADNEY (S/N NOT GIVEN) - DIESEL ENGINE

Sample No: VPA055736
Oil Type: SHELL ROTELLA T 40

SAMPLE INFORMATION

Sample Number	VPA055736	---	---	---
Sample Date	22 Sep 2023	---	---	---
Machine Hours	1400	---	---	---
Oil Hours	5	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 13.6	---	---	---
Base Number (BN)	mg KOH/g	█ 8.2	---	---	---
Oxidation (PA)	%	27	---	---	---

CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	27	---	---	---
Sulfation (PA)	%	35	---	---	---
Glycol	%	█ 0.0	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 11	---	---	---
Sodium	ppm	█ 6	---	---	---
Potassium	ppm	█ 2	---	---	---

WEAR METALS

Iron	ppm	█ 7	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ < 1	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ < 1	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 120	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 2758	---	---	---
Magnesium	ppm	█ 32	---	---	---
Zinc	ppm	█ 1293	---	---	---
Phosphorus	ppm	█ 1093	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 4	---	---	---

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Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Test for glycol is negative. 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: VP151756
Unique No: 10669736
Signed: Jonathan Hester
Report Date: 04 Oct 2023

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GRAPHS

