

# OIL ANALYSIS REPORT

# VOLVO PENTA

## VOLVO PENTA VOLVO PENTA 5.7 GSIPLKD (S/N NOT GIVEN) - GASOLINE ENGINE

Sample No: VPA056432

Oil Type: NOT GIVEN

### SAMPLE INFORMATION

Sample Number	VPA056432	---	---	---
Sample Date	09 Aug 2023	---	---	---
Machine Hours	2384	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---

ZACH SALTZBERG

941 BLOOMFIELD RD

SEBASTOPOL, CA

US 95472

Contact: Service Manager

T:

F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 10.9	---	---	---
Base Number (BN)	mg KOH/g	█ 9.1	---	---	---
Oxidation (PA)	%	14	---	---	---

### CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	11	---	---	---
Sulfation (PA)	%	13	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	🔴 160	---	---	---
Sodium	ppm	🟡 714	---	---	---
Potassium	ppm	🟡 56	---	---	---

### WEAR METALS

Iron	ppm	🔴 1385	---	---	---
Copper	ppm	█ 29	---	---	---
Lead	ppm	█ 26	---	---	---
Tin	ppm	█ 5	---	---	---
Aluminum	ppm	🔴 204	---	---	---
Chromium	ppm	🟡 26	---	---	---
Molybdenum	ppm	45	---	---	---
Nickel	ppm	█ 3	---	---	---
Titanium	ppm	1	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	12	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	1862	---	---	---
Magnesium	ppm	162	---	---	---
Zinc	ppm	884	---	---	---
Phosphorus	ppm	715	---	---	---
Barium	ppm	3	---	---	---
Boron	ppm	81	---	---	---

### Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Piston, ring and cylinder wear is indicated. Sodium and/or potassium levels are high. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: VPZACSEB

Unique No: 10607011

Signed: Jonathan Hester

Report Date: 21 Aug 2023

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**VOLVO  
PENTA**

## GRAPHS

