

# OIL ANALYSIS REPORT

# VOLVO PENTA

**TOM MADDEN 505265 KOHLER 0734548 - GENSET**

**Sample No:** VPA048597

**Oil Type:** VOLVO PENTA SAE 15W40

## SAMPLE INFORMATION

Sample Number	VPA048597	VPA042767	VPA032264	---
Sample Date	08 Sep 2023	13 Jan 2023	24 May 2021	---
Machine Hours	1237	1213	1138	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Not Changd	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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## OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	█ 13.2	█ 13.6	---
Base Number (BN)	mg KOH/g	█ 9.4	9.7	---	---
Oxidation (PA)	%	52	61	63	---

## CONTAMINATION

Soot %	%	█ 0.1	█ 0.1	█ 0.1	---
Nitration (PA)	%	43	52	56	---
Sulfation (PA)	%	47	52	53	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	█ 4	█ 6	█ 3	---
Sodium	ppm	█ <1	█ 2	█ 3	---
Potassium	ppm	█ <1	█ 1	█ <1	---

## WEAR METALS

Iron	ppm	█ 3	█ 6	█ 11	---
Copper	ppm	█ <1	█ <1	█ <1	---
Lead	ppm	█ 0	█ 1	█ <1	---
Tin	ppm	█ 0	█ <1	█ <1	---
Aluminum	ppm	█ <1	█ <1	█ 0	---
Chromium	ppm	█ 0	█ <1	█ <1	---
Molybdenum	ppm	█ 65	60	█ 46	---
Nickel	ppm	█ 0	█ <1	█ 0	---
Titanium	ppm	<1	4	█ 17	---
Silver	ppm	█ 0	█ 0	0	---
Manganese	ppm	█ 0	<1	█ <1	---
Vanadium	ppm	<1	<1	<1	---

## ADDITIVES

Calcium	ppm	█ 1343	1143	█ 1132	---
Magnesium	ppm	█ 873	927	█ 772	---
Zinc	ppm	█ 1276	1250	█ 1095	---
Phosphorus	ppm	█ 1021	1023	█ 944	---
Barium	ppm	█ 0	0	█ 0	---
Boron	ppm	█ 4	7	█ 26	---

## Diagnosis

No corrective action is recommended at this time. 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:** VP297371  
**Unique No:** 10645890  
**Signed:** Angela Borella  
**Report Date:** 15 Sep 2023

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PENTA**

## GRAPHS

