

# OIL ANALYSIS REPORT



**CHARLES LOTRIDGE 505677 ONAN C200742919 - GENSET**

**Sample No:** VPA062145  
**Oil Type:** VOLVO PENTA SAE 15W40

## SAMPLE INFORMATION

Sample Number	<b>VPA062145</b>	VPA041073	VPA029938	---
Sample Date	<b>27 Mar 2024</b>	20 Feb 2023	12 Jan 2022	---
Machine Hours	<b>322</b>	253	141	---
Oil Hours	<b>332</b>	110	141	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.0</b>	13.0	13.0	---
Base Number (BN)	mg KOH/g	<b>10.0</b>	10.1	11.1	---
Oxidation (PA)	%	<b>59</b>	59	65	---

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.1</b>	0.1	0.1	---
Nitration (PA)	%	<b>47</b>	53	65	---
Sulfation (PA)	%	<b>51</b>	52	56	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>3</b>	6	13	---
Sodium	ppm	<b>1</b>	<1	7	---
Potassium	ppm	<b>0</b>	1	1	---

## Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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	<b>3</b>	6	12	---
Copper	ppm	<b>2</b>	3	14	---
Lead	ppm	<b>0</b>	<1	<1	---
Tin	ppm	<b>0</b>	<1	<1	---
Aluminum	ppm	<b>&lt;1</b>	<1	<1	---
Chromium	ppm	<b>0</b>	<1	<1	---
Molybdenum	ppm	<b>55</b>	54	39	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>0</b>	0	<1	---
Silver	ppm	<b>0</b>	0	<1	---
Manganese	ppm	<b>&lt;1</b>	1	2	---
Vanadium	ppm	<b>0</b>	0	0	---

## ADDITIVES

Calcium	ppm	<b>1068</b>	1308	1833	---
Magnesium	ppm	<b>946</b>	881	504	---
Zinc	ppm	<b>1209</b>	1219	1002	---
Phosphorus	ppm	<b>1028</b>	987	926	---
Barium	ppm	<b>0</b>	0	4	---
Boron	ppm	<b>4</b>	10	61	---

**Depot:** VP297371  
**Unique No:** 10965788  
**Signed:** Sean Felton  
**Report Date:** 10 Apr 2024

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# VOLVO PENTA

## GRAPHS

