

# OIL ANALYSIS REPORT



**FRANK NICOLELLA 505821 ONAN L120430364 - GENSET**

**Sample No:** VPA056316  
**Oil Type:** VOLVO PENTA SAE 15W40

## SAMPLE INFORMATION

Sample Number	<b>VPA056316</b>	VPA040259	VPA031663	---
Sample Date	<b>10 Jan 2024</b>	15 Dec 2021	18 Jan 2021	---
Machine Hours	<b>769</b>	703	360	---
Oil Hours	<b>65</b>	0	0	---
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>13.1</b>	13.1	13.1	---
Base Number (BN)	mg KOH/g	<b>9.9</b>	10.5	---	---
Oxidation (PA)	%	<b>57</b>	57	56	---

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.1</b>	0.1	0.1	---
Nitration (PA)	%	<b>46</b>	45	47	---
Sulfation (PA)	%	<b>50</b>	52	52	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>11</b>	3	10	---
Sodium	ppm	<b>2</b>	4	3	---
Potassium	ppm	<b>0</b>	0	0	---

## 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 suitable for further service.

## WEAR METALS

Iron	ppm	<b>11</b>	8	10	---
Copper	ppm	<b>2</b>	<1	2	---
Lead	ppm	<b>0</b>	0	0	---
Tin	ppm	<b>0</b>	0	0	---
Aluminum	ppm	<b>&lt;1</b>	0	2	---
Chromium	ppm	<b>0</b>	<1	<1	---
Molybdenum	ppm	<b>59</b>	58	61	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>0</b>	0	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>0</b>	0	<1	---
Vanadium	ppm	<b>0</b>	0	0	---

## ADDITIVES

Calcium	ppm	<b>1042</b>	1062	1173	---
Magnesium	ppm	<b>959</b>	977	989	---
Zinc	ppm	<b>1255</b>	1127	1224	---
Phosphorus	ppm	<b>1052</b>	1021	1030	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>6</b>	<1	6	---

**Depot:** VP297371  
**Unique No:** 10832021  
**Signed:** Angela Borella  
**Report Date:** 17 Jan 2024

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# VOLVO PENTA

## GRAPHS

