

# OIL ANALYSIS REPORT

# VOLVO PENTA

**GREG GARTRELL GEOFF NORTHERN LIGHTS 7732-52658 - GENSET**

**Sample No:** VPA050576  
**Oil Type:** VOLVO PENTA SAE 15W40

## SAMPLE INFORMATION

Sample Number	<b>VPA050576</b>	VPA034166	VPA038684	---
Sample Date	<b>27 Jun 2023</b>	19 Apr 2022	07 Jul 2021	---
Machine Hours	<b>366</b>	0	0	---
Oil Hours	<b>0</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>13.6</b>	13.4	14.0	---
Base Number (BN)	mg KOH/g	<b>10.3</b>	11.2	---	---
Oxidation (PA)	%	<b>55</b>	60	68	---

## CONTAMINATION

Soot %	%	<b>0.1</b>	0.1	0.1	---
Nitration (PA)	%	<b>42</b>	48	58	---
Sulfation (PA)	%	<b>51</b>	56	57	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>6</b>	5	5	---
Sodium	ppm	<b>2</b>	1	6	---
Potassium	ppm	<b>&lt;1</b>	1	5	---

## 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 acceptable for the time in service.

## WEAR METALS

Iron	ppm	<b>1</b>	5	11	---
Copper	ppm	<b>1</b>	3	3	---
Lead	ppm	<b>&lt;1</b>	1	<1	---
Tin	ppm	<b>0</b>	0	<1	---
Aluminum	ppm	<b>&lt;1</b>	2	0	---
Chromium	ppm	<b>0</b>	<1	<1	---
Molybdenum	ppm	<b>57</b>	47	42	---
Nickel	ppm	<b>0</b>	0	<1	---
Titanium	ppm	<b>&lt;1</b>	0	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---

## ADDITIVES

Calcium	ppm	<b>1156</b>	1184	1485	---
Magnesium	ppm	<b>1052</b>	822	505	---
Zinc	ppm	<b>1313</b>	1139	1014	---
Phosphorus	ppm	<b>1073</b>	917	902	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>7</b>	27	93	---

**Depot:** VP794951  
**Unique No:** 10565390  
**Signed:** Don Baldrige  
**Report Date:** 25 Jul 2023

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PENTA**

## GRAPHS

