

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## E120344036 - GENSET

**Sample No:** VPA060060  
**Oil Type:** DIESEL ENGINE OIL SAE 40

### SAMPLE INFORMATION

Sample Number	<b>VPA060060</b>	VPA041632	VPA040494	---
Sample Date	<b>16 Dec 2023</b>	04 Feb 2023	03 Mar 2022	---
Machine Hours	<b>2858</b>	2499	2259	---
Oil Hours	<b>0</b>	0	150	---
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>13.7</b>	14.0	13.9	---
Base Number (BN)	mg KOH/g	<b>7.6</b>	8.1	8.9	---
Oxidation (PA)	%	<b>69</b>	65	73	---

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.1</b>	0.1	0.1	---
Nitration (PA)	%	<b>64</b>	58	64	---
Sulfation (PA)	%	<b>60</b>	58	60	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>6</b>	4	6	---
Sodium	ppm	<b>4</b>	1	4	---
Potassium	ppm	<b>2</b>	1	8	---

### 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>3</b>	5	9	---
Copper	ppm	<b>1</b>	<1	1	---
Lead	ppm	<b>0</b>	<1	<1	---
Tin	ppm	<b>1</b>	1	2	---
Aluminum	ppm	<b>4</b>	3	3	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>86</b>	74	17	---
Nickel	ppm	<b>&lt;1</b>	0	0	---
Titanium	ppm	<b>0</b>	0	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>&lt;1</b>	<1	<1	---

### ADDITIVES

Calcium	ppm	<b>1586</b>	1618	2388	---
Magnesium	ppm	<b>396</b>	357	273	---
Zinc	ppm	<b>1364</b>	1263	1492	---
Phosphorus	ppm	<b>1134</b>	993	1208	---
Barium	ppm	<b>&lt;1</b>	0	0	---
Boron	ppm	<b>503</b>	483	165	---

**Depot:** VPMITBOC  
**Unique No:** 10804392  
**Signed:** Angela Borella  
**Report Date:** 27 Dec 2023

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## GRAPHS

