

# OIL ANALYSIS REPORT

# VOLVO PENTA

**JACK BROWN 505697 KOHLER SGM3243T2 - GENSET**

**Sample No:** VPA048814

**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

## SAMPLE INFORMATION

Sample Number	<b>VPA048814</b>	VPA042428	VPA037103	---
Sample Date	<b>29 Sep 2023</b>	17 Sep 2022	04 Oct 2021	---
Machine Hours	<b>980</b>	931	850	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Not Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

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## OIL CONDITION

Visc @ 100°C	cSt	<b>14.21</b>	13.8	14.3	---
Base Number (BN)	mg KOH/g	<b>9.2</b>	11.0	---	---
Oxidation (PA)	%	<b>55</b>	64	69	---

## CONTAMINATION

Soot %	%	<b>0</b>	0.1	0.1	---
Nitration (PA)	%	<b>46</b>	59	68	---
Sulfation (PA)	%	<b>48</b>	56	57	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>4</b>	5	11	---
Sodium	ppm	<b>&lt;1</b>	2	2	---
Potassium	ppm	<b>&lt;1</b>	3	5	---

## WEAR METALS

Iron	ppm	<b>3</b>	3	5	---
Copper	ppm	<b>0</b>	<1	<1	---
Lead	ppm	<b>&lt;1</b>	0	<1	---
Tin	ppm	<b>0</b>	0	<1	---
Aluminum	ppm	<b>5</b>	0	<1	---
Chromium	ppm	<b>0</b>	<1	<1	---
Molybdenum	ppm	<b>55</b>	43	6	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	0	<1	---
Manganese	ppm	<b>0</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	0	0	---

## ADDITIVES

Calcium	ppm	<b>1103</b>	1336	2299	---
Magnesium	ppm	<b>923</b>	746	98	---
Zinc	ppm	<b>1259</b>	1250	1214	---
Phosphorus	ppm	<b>1029</b>	985	981	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>15</b>	28	131	---

## 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:** 10673361  
**Signed:** Doug Bogart  
**Report Date:** 02 Oct 2023

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PENTA**

## GRAPHS

