

# OIL ANALYSIS REPORT



**BILL JONES 7716732 VOLVO PENTA A1092056 - CENTER DIESEL ENGINE**

**Sample No:** VPA049972

**Oil Type:** VOLVO PENTA SAE 15W40

## SAMPLE INFORMATION

Sample Number	<b>VPA049972</b>	VPA037766	VPA025636	---
Sample Date	<b>11 Sep 2023</b>	17 Nov 2021	22 Sep 2020	---
Machine Hours	<b>545</b>	310	162	---
Oil Hours	<b>0</b>	0	162	---
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>	12.9	13.0	---
Base Number (BN)	mg KOH/g	<b>9.6</b>	---	---	---
Oxidation (PA)	%	<b>63</b>	63	76	---

## CONTAMINATION

Soot %	%	<b>0.4</b>	0.7	0.4	---
Nitration (PA)	%	<b>48</b>	57	55	---
Sulfation (PA)	%	<b>55</b>	58	63	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>13</b>	10	26	---
Sodium	ppm	<b>2</b>	2	4	---
Potassium	ppm	<b>1</b>	0	3	---

## 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>16</b>	25	30	---
Copper	ppm	<b>9</b>	13	20	---
Lead	ppm	<b>2</b>	4	7	---
Tin	ppm	<b>1</b>	1	4	---
Aluminum	ppm	<b>4</b>	7	16	---
Chromium	ppm	<b>1</b>	2	2	---
Molybdenum	ppm	<b>57</b>	54	44	---
Nickel	ppm	<b>3</b>	0	3	---
Titanium	ppm	<b>0</b>	<1	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	2	---
Vanadium	ppm	<b>0</b>	0	0	---

## ADDITIVES

Calcium	ppm	<b>1330</b>	1162	1659	---
Magnesium	ppm	<b>808</b>	904	563	---
Zinc	ppm	<b>1251</b>	1110	1125	---
Phosphorus	ppm	<b>1052</b>	1037	930	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>25</b>	7	57	---

**Depot:** VP99031103  
**Unique No:** 10656229  
**Signed:** Jonathan Hester  
**Report Date:** 21 Sep 2023

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## GRAPHS

