

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

**JON BRADEN GREG E. ONAN D170173069 - CENTER GENSET**

**Sample No:** VPA058510  
**Oil Type:** VOLVO PENTA SAE 15W40

## SAMPLE INFORMATION

Sample Number	<b>VPA058510</b>	VPA042046	---	---
Sample Date	<b>19 Jun 2024</b>	21 Jun 2023	---	---
Machine Hours	<b>736</b>	530	---	---
Oil Hours	<b>233</b>	120	---	---
Oil Changed	<b>Changed</b>	Changed	---	---
Sample Status	<b>NORMAL</b>	NORMAL	---	---

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.1</b>	12.5	---	---
Base Number (BN)	mg KOH/g	<b>8.8</b>	10.3	---	---
Oxidation (PA)	%	<b>68</b>	58	---	---

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	---	---
Soot %	%	<b>0.1</b>	0.1	---	---
Nitration (PA)	%	<b>67</b>	48	---	---
Sulfation (PA)	%	<b>52</b>	52	---	---
Glycol	%	<b>NEG</b>	NEG	---	---
Fuel	%	<b>&lt;1.0</b>	<1.0	---	---
Silicon	ppm	<b>7</b>	9	---	---
Sodium	ppm	<b>3</b>	3	---	---
Potassium	ppm	<b>1</b>	2	---	---

## 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>4</b>	4	---	---
Copper	ppm	<b>3</b>	1	---	---
Lead	ppm	<b>0</b>	0	---	---
Tin	ppm	<b>0</b>	0	---	---
Aluminum	ppm	<b>2</b>	<1	---	---
Chromium	ppm	<b>&lt;1</b>	0	---	---
Molybdenum	ppm	<b>46</b>	56	---	---
Nickel	ppm	<b>0</b>	0	---	---
Titanium	ppm	<b>0</b>	0	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>0</b>	<1	---	---
Vanadium	ppm	<b>0</b>	0	---	---

## ADDITIVES

Calcium	ppm	<b>1047</b>	1099	---	---
Magnesium	ppm	<b>773</b>	964	---	---
Zinc	ppm	<b>873</b>	1249	---	---
Phosphorus	ppm	<b>707</b>	1027	---	---
Barium	ppm	<b>0</b>	0	---	---
Boron	ppm	<b>30</b>	3	---	---

**Depot:** VP648685  
**Unique No:** 11110436  
**Signed:** Don Baldrige  
**Report Date:** 05 Jul 2024

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## GRAPHS

