

# OIL ANALYSIS REPORT

# VOLVO PENTA

**BRETT AGGEN 502940 VOLVO PENTA 4012149040 - GASOLINE ENGINE**

**Sample No:** VPA053197

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

## SAMPLE INFORMATION

Sample Number	VPA053197	---	---	---
Sample Date	21 May 2024	---	---	---
Machine Hours	324	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ATTENTION	---	---	---

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## OIL CONDITION

Visc @ 100°C	cSt	● 10.1	---	---	---
Base Number (BN)	mg KOH/g	■ 8.2	---	---	---
Oxidation (PA)	%	■ 16	---	---	---

## Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

## CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	■ 14	---	---	---
Sulfation (PA)	%	■ 13	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 2.0	---	---	---
Silicon	ppm	■ 47	---	---	---
Sodium	ppm	■ 6	---	---	---
Potassium	ppm	■ 2	---	---	---

## WEAR METALS

Iron	ppm	■ 42	---	---	---
Copper	ppm	■ 6	---	---	---
Lead	ppm	■ 4	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ 2	---	---	---
Molybdenum	ppm	■ 34	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ <1	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	<1	---	---	---

## ADDITIVES

Calcium	ppm	■ 1701	---	---	---
Magnesium	ppm	■ 153	---	---	---
Zinc	ppm	■ 851	---	---	---
Phosphorus	ppm	■ 728	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 41	---	---	---

**Depot:** VP794951  
**Unique No:** 11057206  
**Signed:** Jonathan Hester  
**Report Date:** 04 Jun 2024

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## GRAPHS

