

# OIL ANALYSIS REPORT

# VOLVO PENTA

## TEDD PATTERSON VOLVO PENTA A277747 - DIESEL ENGINE

Sample No: VPA050908

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

### SAMPLE INFORMATION

Sample Number	VPA050908	VPA028689	---	---
Sample Date	18 Feb 2024	01 Dec 2022	---	---
Machine Hours	0	1173	---	---
Oil Hours	75	20	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

### OIL CONDITION

Visc @ 100°C	cSt	█ 13.2	█ 13.6	---	---
Base Number (BN)	mg KOH/g	█ 10.1	█ 11.5	---	---
Oxidation (PA)	%	56	59	---	---

### CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.2	█ 0.1	---	---
Nitration (PA)	%	44	44	---	---
Sulfation (PA)	%	52	56	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 5	█ 6	---	---
Sodium	ppm	█ 6	█ 11	---	---
Potassium	ppm	█ 2	█ 0	---	---

### WEAR METALS

Iron	ppm	█ 12	█ 7	---	---
Copper	ppm	█ 6	█ 3	---	---
Lead	ppm	█ <1	█ 0	---	---
Tin	ppm	█ 0	█ 0	---	---
Aluminum	ppm	█ 8	█ 14	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 57	█ 59	---	---
Nickel	ppm	█ 2	█ 0	---	---
Titanium	ppm	█ <1	█ 0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 0	█ <1	---	---
Vanadium	ppm	0	0	---	---

### ADDITIVES

Calcium	ppm	█ 1021	█ 1099	---	---
Magnesium	ppm	█ 922	█ 955	---	---
Zinc	ppm	█ 1186	█ 1263	---	---
Phosphorus	ppm	█ 1033	█ 1040	---	---
Barium	ppm	█ 10	█ 0	---	---
Boron	ppm	█ 3	█ 0	---	---

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### 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.

**Depot:** VP153319  
**Unique No:** 10885579  
**Signed:** Don Baldrige  
**Report Date:** 20 Feb 2024

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## GRAPHS

