

# OIL ANALYSIS REPORT

# VOLVO PENTA

## DAVID BARLOW VOLVO PENTA A 1174011 - PORT DIESEL ENGINE

Sample No: VPA044739

Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

### SAMPLE INFORMATION

Sample Number	VPA044739	---	---	---
Sample Date	10 Nov 2023	---	---	---
Machine Hours	540	---	---	---
Oil Hours	1	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

### OIL CONDITION

Visc @ 100°C	cSt	█ 13.6	---	---	---
Base Number (BN)	mg KOH/g	█ 10.1	---	---	---
Oxidation (PA)	%	51	---	---	---

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0	---	---	---
Nitration (PA)	%	41	---	---	---
Sulfation (PA)	%	48	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 3	---	---	---
Sodium	ppm	█ 7	---	---	---
Potassium	ppm	█ 2	---	---	---

### WEAR METALS

Iron	ppm	█ 4	---	---	---
Copper	ppm	█ 1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 58	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	985	---	---	---
Magnesium	ppm	█ 851	---	---	---
Zinc	ppm	█ 1116	---	---	---
Phosphorus	ppm	█ 925	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ <1	---	---	---

### INTERSTATE POWER SYSTEMS

210 ALEXANDRA WAY  
CAROL STREAM, IL  
US 60188

Contact: JOSEPH WOHLFEIL  
joseph.wohlfeil@istate.com  
T: (224)240-1619  
F: (630)871-0237

### Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. No water, or moisture detected in the sample. 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: VP1103103  
Unique No: 10751248  
Signed: Sean Felton  
Report Date: 21 Nov 2023

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## GRAPHS

