

# OIL ANALYSIS REPORT

# VOLVO PENTA

## RICHARD FORTIER VOLVO PENTA A272702 - PORT DIESEL ENGINE

Sample No: VPA035691

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

### SAMPLE INFORMATION

Sample Number	VPA035691	VPA035693	---	---
Sample Date	24 Oct 2023	28 Oct 2022	---	---
Machine Hours	523	490	---	---
Oil Hours	15	25	---	---
Oil Changed	Not Changd	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---

### OIL CONDITION

Visc @ 100°C	cSt	█ 14.0	█ 13.4	---	---
Base Number (BN)	mg KOH/g	█ 8.6	█ 10.5	---	---
Oxidation (PA)	%	61	53	---	---

### CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.1	█ 0.1	---	---
Nitration (PA)	%	43	41	---	---
Sulfation (PA)	%	54	51	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 4	█ 5	---	---
Sodium	ppm	█ 0	█ 2	---	---
Potassium	ppm	█ 7	█ <1	---	---

### WEAR METALS

Iron	ppm	█ 7	█ 5	---	---
Copper	ppm	█ 2	█ 1	---	---
Lead	ppm	█ 0	█ <1	---	---
Tin	ppm	█ 0	█ <1	---	---
Aluminum	ppm	█ 1	█ 0	---	---
Chromium	ppm	█ 0	█ <1	---	---
Molybdenum	ppm	█ 14	█ 58	---	---
Nickel	ppm	█ <1	█ 0	---	---
Titanium	ppm	█ <1	█ 0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 0	█ 0	---	---
Vanadium	ppm	0	0	---	---

### ADDITIVES

Calcium	ppm	█ 1795	█ 1081	---	---
Magnesium	ppm	█ 207	█ 888	---	---
Zinc	ppm	█ 1090	█ 1227	---	---
Phosphorus	ppm	█ 956	█ 1019	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 169	█ 5	---	---

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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 acceptable for the time in service.

Depot: VP153550

Unique No: 10750531

Signed: Sean Felton

Report Date: 21 Nov 2023

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## GRAPHS

