

# OIL ANALYSIS REPORT

# VOLVO PENTA

## DORR WALTER KOHLER 50772574 - CENTER GENSET

Sample No: VPA047212

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

### SAMPLE INFORMATION

Sample Number	VPA047212	VPA034244	VPA027685	---
Sample Date	01 Oct 2022	17 Oct 2021	20 Jul 2020	---
Machine Hours	970	900	0	---
Oil Hours	70	70	0	---
Oil Changed	Changed	Changed	N/A	---
Sample Status	NORMAL	NORMAL	NORMAL	---

### OIL CONDITION

Visc @ 100°C	cSt	█ 14.1	█ 13.3	█ 14.0	---
Base Number (BN)	mg KOH/g	█ 10.4	---	---	---
Oxidation (PA)	%	69	63	59	---

### CONTAMINATION

Soot %	%	█ 0.1	█ 0.1	█ 0.1	---
Nitration (PA)	%	56	53	57	---
Sulfation (PA)	%	60	55	53	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	█ 4	█ 5	█ 6	---
Sodium	ppm	█ 2	█ 0	█ 4	---
Potassium	ppm	█ 6	█ 3	█ 0	---

### WEAR METALS

Iron	ppm	█ 3	█ 7	█ 6	---
Copper	ppm	█ <1	█ 2	█ 5	---
Lead	ppm	█ <1	█ <1	█ <1	---
Tin	ppm	█ <1	█ <1	█ 0	---
Aluminum	ppm	█ <1	█ <1	█ 3	---
Chromium	ppm	█ <1	█ <1	█ <1	---
Molybdenum	ppm	█ 11	█ 40	█ 52	---
Nickel	ppm	█ <1	█ 0	█ 1	---
Titanium	ppm	0	0	█ <1	---
Silver	ppm	█ <1	<1	0	---
Manganese	ppm	█ <1	█ <1	█ <1	---
Vanadium	ppm	0	0	0	---

### ADDITIVES

Calcium	ppm	█ 2009	█ 1603	█ 1538	---
Magnesium	ppm	█ 189	█ 664	█ 896	---
Zinc	ppm	█ 1193	█ 1206	█ 1273	---
Phosphorus	ppm	█ 982	█ 1131	█ 1134	---
Barium	ppm	█ 0	█ 0	█ 0	---
Boron	ppm	█ 165	█ 67	█ 45	---

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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:** VP151756  
**Unique No:** 10247960  
**Signed:** Jonathan Hester  
**Report Date:** 13 Dec 2022

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## GRAPHS

