

# OIL ANALYSIS REPORT

# VOLVO PENTA

## ZF NOT GIVEN VPA051800 - INBOARD - PORT GEARBOX

Sample No: VPA051800

Oil Type: NAPA 30WT

### SAMPLE INFORMATION

Sample Number	VPA051800	---	---	---
Sample Date	14 Sep 2023	---	---	---
Machine Hours	2000	---	---	---
Oil Hours	200	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

### OIL CONDITION

Visc @ 40°C	cSt	■ 76.9	---	---	---
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### CONTAMINATION

Silicon	ppm	■ 4	---	---	---
Sodium	ppm	■ 1	---	---	---
Potassium	ppm	■ <1	---	---	---

### WEAR METALS

PQ		■ 12	---	---	---
Iron	ppm	■ 30	---	---	---
Copper	ppm	▲ 95	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ <1	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	2	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	3030	---	---	---
Magnesium	ppm	22	---	---	---
Zinc	ppm	1263	---	---	---
Phosphorus	ppm	1025	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	24	---	---	---

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### Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** VP551029  
**Unique No:** 10648968  
**Signed:** Sean Felton  
**Report Date:** 19 Sep 2023

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## GRAPHS

