

# OIL ANALYSIS REPORT

# VOLVO PENTA

## LERMAN ZF 20090774 - INBOARD - PORT GEARBOX

**Sample No:** VPA045578  
**Oil Type:** SHELL ROTELLA T 30

### SAMPLE INFORMATION

Sample Number	VPA045578	VPA040979	VPA036056	---
Sample Date	01 Dec 2023	21 Nov 2022	19 Oct 2021	---
Machine Hours	0	854	420	---
Oil Hours	0	25	0	---
Oil Changed	Not Changd	Changed	N/A	---
Sample Status	NORMAL	NORMAL	NORMAL	---

### Walstrom Marine - 767948

501 Bay Street  
HARBOR SPRINGS, MI  
US 49740  
Contact: RICK HEINY  
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T:  
F:

### OIL CONDITION

Visc @ 40°C	cSt	■ 91.2	■ 94.3	■ 106	---
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### CONTAMINATION

Water	%	■ NEG	■ NEG	■ NEG	---
Silicon	ppm	■ 4	■ 4	■ 4	---
Sodium	ppm	■ 3	■ 2	■ 2	---
Potassium	ppm	■ 0	■ 1	■ 0	---

### Diagnosis

No corrective action is recommended at this time. 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 condition of the oil is acceptable for the time in service.

### WEAR METALS

PQ		■ 16	■ 18	■ 34	---
Iron	ppm	■ 6	■ 15	■ 20	---
Copper	ppm	■ 19	■ 22	■ 44	---
Lead	ppm	■ <1	■ <1	■ <1	---
Tin	ppm	■ <1	■ <1	■ 0	---
Aluminum	ppm	■ 3	■ 4	■ 7	---
Chromium	ppm	■ 0	■ <1	<1	---
Molybdenum	ppm	■ 114	■ 110	■ 84	---
Nickel	ppm	■ 0	■ 0	<1	---
Titanium	ppm	■ 0	■ 0	■ <1	---
Silver	ppm	■ 0	■ 0	■ 0	---
Manganese	ppm	■ <1	■ <1	■ <1	---
Vanadium	ppm	■ 0	■ 0	■ 0	---

### ADDITIVES

Calcium	ppm	■ 2567	■ 2499	■ 2226	---
Magnesium	ppm	■ 34	■ 79	■ 258	---
Zinc	ppm	■ 1168	■ 1121	■ 956	---
Phosphorus	ppm	■ 1075	■ 993	■ 826	---
Barium	ppm	■ 0	■ 0	■ 0	---
Boron	ppm	■ 6	■ 4	■ 10	---

**Depot:** VP154879  
**Unique No:** 10775607  
**Signed:** Sean Felton  
**Report Date:** 07 Dec 2023

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## GRAPHS

