

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## UNDER DOWN ZF 20053622 - INBOARD - PORT GEARBOX

Sample No: VPA044021

Oil Type: NOT GIVEN

### SAMPLE INFORMATION

Sample Number	VPA044021	---	---	---
Sample Date	17 Oct 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

### Walstrom Marine - 767948

501 Bay Street  
HARBOR SPRINGS, MI  
US 49740  
Contact: RICK HEINY  
rheiny@walstrom.com

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F:

### OIL CONDITION

Visc @ 40°C	cSt	■ 108	---	---	---
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### CONTAMINATION

Silicon	ppm	■ 6	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 13	---	---	---

### WEAR METALS

PQ		■ 35	---	---	---
Iron	ppm	■ 84	---	---	---
Copper	ppm	▲ 314	---	---	---
Lead	ppm	■ 18	---	---	---
Tin	ppm	■ 5	---	---	---
Aluminum	ppm	■ 6	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	67	---	---	---
Nickel	ppm	■ 2	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	2366	---	---	---
Magnesium	ppm	13	---	---	---
Zinc	ppm	1139	---	---	---
Phosphorus	ppm	1021	---	---	---
Barium	ppm	11	---	---	---
Boron	ppm	103	---	---	---

### Diagnosis

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. The copper level is abnormal. Clutch disc wear or oil cooler leaching indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VP154879  
Unique No: 10709558  
Signed: Jonathan Hester  
Report Date: 25 Oct 2023

# OIL ANALYSIS REPORT



## GRAPHS

