

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## MARK THORNDYKE ZF HURTH 20372749 - INBOARD - PORT GEARBOX

Sample No: VPA036933

Oil Type: SAE 30W

### SAMPLE INFORMATION

Sample Number	VPA036933	---	---	---
Sample Date	20 Oct 2023	---	---	---
Machine Hours	342	---	---	---
Oil Hours	90	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

**CHICAGO YACHT WORKS**  
2550 S ASHLAND AVE  
CHICAGO, IL  
US 60608  
Contact: JONATHAN PAIGE  
jonathan@chicagoyachtworks.com  
T: (312)666-6670  
F:

### OIL CONDITION

Visc @ 40°C	cSt	■ 88.3	---	---	---
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### CONTAMINATION

Silicon	ppm	■ 6	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ 0	---	---	---

### 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 condition of the oil is acceptable for the time in service.

### WEAR METALS

PQ		■ 21	---	---	---
Iron	ppm	■ 9	---	---	---
Copper	ppm	■ 20	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ 1	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 40	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	■ 0	---	---	---

### ADDITIVES

Calcium	ppm	■ 3166	---	---	---
Magnesium	ppm	■ 42	---	---	---
Zinc	ppm	■ 1051	---	---	---
Phosphorus	ppm	■ 895	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 415	---	---	---

**Depot:** VP1080862  
**Unique No:** 10714474  
**Signed:** Sean Felton  
**Report Date:** 31 Oct 2023

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## GRAPHS

