

# OIL ANALYSIS REPORT

# VOLVO PENTA

## JOHN ARENDSHORST ZF 20415452 - INBOARD - STARBOARD GEARBOX

Sample No: VPA049875

Oil Type: SAE 30W

### SAMPLE INFORMATION

Sample Number	VPA049875	---	---	---
Sample Date	15 Dec 2023	---	---	---
Machine Hours	127	---	---	---
Oil Hours	127	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

### YACHT BASIN MARINA

1866 OTTAWA BEACH RD

HOLLAND, MI

US 49424

Contact: OIL SAMPLE/PART

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T: (616)786-2205

F:

### OIL CONDITION

Visc @ 40°C	cSt	■ 79.9	---	---	---
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### CONTAMINATION

Water	%	■ NEG	---	---	---
Silicon	ppm	■ 6	---	---	---
Sodium	ppm	■ 0	---	---	---
Potassium	ppm	■ 1	---	---	---

### WEAR METALS

PQ		■ 13	---	---	---
Iron	ppm	■ 10	---	---	---
Copper	ppm	■ 159	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 4	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 90	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 0	---	---	---
Vanadium	ppm	■ 0	---	---	---

### ADDITIVES

Calcium	ppm	■ 1460	---	---	---
Magnesium	ppm	■ 403	---	---	---
Zinc	ppm	■ 861	---	---	---
Phosphorus	ppm	■ 765	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 177	---	---	---

### 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.

Depot: VP718610

Unique No: 10803003

Signed: Don Baldrige

Report Date: 24 Dec 2023

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## GRAPHS

