

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## LAMPHER ZF 20039516 - STARBOARD TRANSMISSION

Sample No: VPA045597

Oil Type: SAE 30W

### SAMPLE INFORMATION

Sample Number	VPA045597	---	---	---
Sample Date	03 Jan 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ATTENTION	---	---	---

**Aqua Yacht Harbor Marina**  
3832 Hwy. 25 North, 3832 Hwy. 25 North  
IUKA, MS  
US 38852  
Contact: DENNIS KANIZAI  
dkanizai@shmarinas.com  
T:  
F:

### OIL CONDITION

Visc @ 40°C	cSt	■ 84.0	---	---	---
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### CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	■ 2	---	---	---
Sodium	ppm	■ 83	---	---	---
Potassium	ppm	■ <1	---	---	---

### WEAR METALS

PQ		■ 16	---	---	---
Iron	ppm	■ 3	---	---	---
Copper	ppm	■ 26	---	---	---
Lead	ppm	▲ 95	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 1	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 63	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	■ 1135	---	---	---
Magnesium	ppm	■ 435	---	---	---
Zinc	ppm	■ 762	---	---	---
Phosphorus	ppm	■ 694	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 145	---	---	---

### Diagnosis

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 fluid. The condition of the fluid is acceptable for the time in service.

Depot: VP299833  
Unique No: 10821549  
Signed: Jonathan Hester  
Report Date: 10 Jan 2024

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## GRAPHS

