

OIL ANALYSIS REPORT

VOLVO PENTA

HOWIE ZF 20058811 - INBOARD - STARBOARD GEARBOX

Sample No: VPA057039

Oil Type: {unknown}

SAMPLE INFORMATION

Sample Number	VPA057039	---	---	---
Sample Date	10 Apr 2024	---	---	---
Machine Hours	1211	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

Outstanding Marine

PO Box 274
GALENA, MD
US 21635
Contact: Ronda Bolinger
rlwb@verizon.net

T:
F:

OIL CONDITION

Visc @ 40°C	cSt	■ 97.1	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	■ 8	---	---	---
Sodium	ppm	■ 7	---	---	---
Potassium	ppm	■ 4	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is abnormal. All other 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		■ 37	---	---	---
Iron	ppm	■ 43	---	---	---
Copper	ppm	■ 176	---	---	---
Lead	ppm	■ 9	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	▲ 110	---	---	---
Chromium	ppm	■ 1	---	---	---
Molybdenum	ppm	■ 64	---	---	---
Nickel	ppm	■ 2	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	2	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	2201	---	---	---
Magnesium	ppm	197	---	---	---
Zinc	ppm	1055	---	---	---
Phosphorus	ppm	995	---	---	---
Barium	ppm	<1	---	---	---
Boron	ppm	29	---	---	---

Depot: VP153685
Unique No: 10982395
Signed: Doug Bogart
Report Date: 19 Apr 2024

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GRAPHS

