

OIL ANALYSIS REPORT

**VOLVO
PENTA**

ZF 20019861 - INBOARD - STARBOARD GEARBOX

Sample No: VPA055312

Oil Type: {unknown}

SAMPLE INFORMATION

Sample Number	VPA055312	---	---	---
Sample Date	01 Feb 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	ABNORMAL	---	---	---

Monmouth Marine Engines Inc

536 UNION LN

BRIELLE, NJ

US 08730-1421

Contact: Kenneth Mika

monmouthmarine@gmail.com

T: x:

F: x:

OIL CONDITION

Visc @ 40°C	cSt	■ 91.0	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	■ 12	---	---	---
Sodium	ppm	■ 8	---	---	---
Potassium	ppm	■ 8	---	---	---

Diagnosis

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Wear rates appear high for OEM. Clutch and/or bushing/bearing wear is indicated. 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		■ 71	---	---	---
Iron	ppm	■ 153	---	---	---
Copper	ppm	▲ 1094	---	---	---
Lead	ppm	▲ 164	---	---	---
Tin	ppm	■ 4	---	---	---
Aluminium	ppm	▲ 133	---	---	---
Chromium	ppm	■ 2	---	---	---
Molybdenum	ppm	3	---	---	---
Nickel	ppm	■ 7	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	3	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	2643	---	---	---
Magnesium	ppm	490	---	---	---
Zinc	ppm	1741	---	---	---
Phosphorus	ppm	1529	---	---	---
Barium	ppm	7	---	---	---
Boron	ppm	107	---	---	---

Depot: VP153457

Unique No: 11002483

Signed: Doug Bogart

Report Date: 30 Apr 2024

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GRAPHS

