

OIL ANALYSIS REPORT

VOLVO PENTA

MCMICHAEL 590-112 ZF 20401268 - INBOARD - STARBOARD GEARBOX

Sample No: VPA057004

Oil Type: {unknown}

SAMPLE INFORMATION

Sample Number	VPA057004	---	---	---
Sample Date	07 Dec 2023	---	---	---
Machine Hours	71	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

Outstanding Marine

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

OIL CONDITION

Visc @ 40°C	cSt	■ 39.7	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	■ 7	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 3	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal for OEM. 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		■ 98	---	---	---
Iron	ppm	■ 132	---	---	---
Copper	ppm	■ 228	---	---	---
Lead	ppm	■ 3	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminium	ppm	■ 3	---	---	---
Chromium	ppm	■ 2	---	---	---
Molybdenum	ppm	48	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	2	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	2238	---	---	---
Magnesium	ppm	0	---	---	---
Zinc	ppm	754	---	---	---
Phosphorus	ppm	676	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	207	---	---	---

Depot: VP153685
Unique No: 10816489
Signed: Doug Bogart
Report Date: 04 Jan 2024

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GRAPHS

