

OIL ANALYSIS REPORT

**VOLVO
PENTA**

BRIAN BRUCE SAM ZF 20045337 - INBOARD - PORT GEARBOX

Sample No: VPA060776

Oil Type: DIESEL ENGINE OIL SAE 30

SAMPLE INFORMATION

Sample Number	VPA060776	---	---	---
Sample Date	15 Feb 2024	---	---	---
Machine Hours	862	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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SEATTLE, WA
US 98107
Contact: WILLOW YANARELLA
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T: (206)784-3703
F: (206)784-8823

OIL CONDITION

Visc @ 40°C	cSt	■ 80.1	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	■ 14	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 1	---	---	---

WEAR METALS

PQ		■ 31	---	---	---
Iron	ppm	■ 51	---	---	---
Copper	ppm	■ 143	---	---	---
Lead	ppm	▲ 58	---	---	---
Tin	ppm	■ 3	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 60	---	---	---
Nickel	ppm	■ 1	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	■ 3134	---	---	---
Magnesium	ppm	■ 43	---	---	---
Zinc	ppm	■ 1184	---	---	---
Phosphorus	ppm	■ 1026	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 335	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The lead 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.

Depot: VP794951
Unique No: 10890135
Signed: Sean Felton
Report Date: 26 Feb 2024

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GRAPHS

