

OIL ANALYSIS REPORT

**VOLVO
PENTA**

RUN RATE ZF 20322393 - INBOARD - STARBOARD GEARBOX

Sample No: VPA056180

Oil Type: SAE 30W

SAMPLE INFORMATION

Sample Number	VPA056180	---	---	---
Sample Date	31 Aug 2023	---	---	---
Machine Hours	342	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	■ 82.4	---	---	---
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CONTAMINATION

Silicon	ppm	■ 8	---	---	---
Sodium	ppm	■ 6	---	---	---
Potassium	ppm	■ 2	---	---	---

WEAR METALS

PQ		■ 49	---	---	---
Iron	ppm	■ 80	---	---	---
Copper	ppm	■ 162	---	---	---
Lead	ppm	■ 9	---	---	---
Tin	ppm	■ 8	---	---	---
Aluminum	ppm	■ 5	---	---	---
Chromium	ppm	■ 1	---	---	---
Molybdenum	ppm	■ 55	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	■ <1	---	---	---

ADDITIVES

Calcium	ppm	■ 2174	---	---	---
Magnesium	ppm	■ 221	---	---	---
Zinc	ppm	■ 751	---	---	---
Phosphorus	ppm	■ 997	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 205	---	---	---

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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.

Depot: VP288530
Unique No: 10632163
Signed: Doug Bogart
Report Date: 05 Sep 2023

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GRAPHS

