

OIL ANALYSIS REPORT

VOLVO PENTA

ALAN HART TOM ZF 20037441 - INBOARD - STARBOARD GEARBOX

Sample No: VPA049594
Oil Type: DIESEL ENGINE OIL SAE 30

SAMPLE INFORMATION

Sample Number	VPA049594	---	---	---
Sample Date	26 Sep 2023	---	---	---
Machine Hours	692	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	SEVERE	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	■ 86.6	---	---	---
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CONTAMINATION

Silicon	ppm	■ 13	---	---	---
Sodium	ppm	■ 5	---	---	---
Potassium	ppm	■ 2	---	---	---

WEAR METALS

PQ		■ 114	---	---	---
Iron	ppm	■ 124	---	---	---
Copper	ppm	● 249	---	---	---
Lead	ppm	▲ 68	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	● 19	---	---	---
Chromium	ppm	■ 1	---	---	---
Molybdenum	ppm	■ 64	---	---	---
Nickel	ppm	■ 2	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	■ 1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 3438	---	---	---
Magnesium	ppm	■ 34	---	---	---
Zinc	ppm	■ 1308	---	---	---
Phosphorus	ppm	■ 1119	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 416	---	---	---

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Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Clutch and/or bushing/bearing wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: VP151529
Unique No: 10669661
Signed: Jonathan Hester
Report Date: 29 Sep 2023

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GRAPHS

