

OIL ANALYSIS REPORT

VOLVO PENTA

WILLIAMS VOLVO PENTA 3200000698 - STARBOARD IPS

Sample No: VPA045625
Oil Type: GEAR OIL SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA045625	---	---	---
Sample Date	29 Nov 2023	---	---	---
Machine Hours	752	---	---	---
Oil Hours	170	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	SEVERE	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	■ 108	---	---	---
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CONTAMINATION

Water	%	● 1.82	---	---	---
Silicon	ppm	▲ 2	---	---	---
Sodium	ppm	▲ 192	---	---	---
Potassium	ppm	■ 8	---	---	---

WEAR METALS

PQ		■ 23	---	---	---
Iron	ppm	▲ 377	---	---	---
Copper	ppm	■ 37	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	▲ 17	---	---	---
Chromium	ppm	■ 2	---	---	---
Molybdenum	ppm	■ <1	---	---	---
Nickel	ppm	■ 5	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 4	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 21	---	---	---
Magnesium	ppm	■ 25	---	---	---
Zinc	ppm	■ 99	---	---	---
Phosphorus	ppm	■ 1369	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 274	---	---	---

Blue Water Marine Repair

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Diagnosis

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: VP151824
Unique No: 10768653
Signed: Jonathan Hester
Report Date: 06 Dec 2023

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GRAPHS

