

OIL ANALYSIS REPORT

VOLVO PENTA

BRIAN MCULLAUGH VOLVO PENTA 4202161208 - STERNDRIVE - PORT GEARBOX

Sample No: VPA045198
Oil Type: GEAR OIL SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA045198	VPA040922	---	---
Sample Date	02 Aug 2023	17 Mar 2022	---	---
Machine Hours	337	329	---	---
Oil Hours	20	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	SEVERE	SEVERE	---	---

OIL CONDITION

Visc @ 40°C	cSt	█ 109	█ 112	---	---
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CONTAMINATION

Water	%	● 1.01	● 2.26	---	---
Silicon	ppm	█ 2	█ 5	---	---
Sodium	ppm	█ 3	█ <1	---	---
Potassium	ppm	█ <1	█ 0	---	---

WEAR METALS

PQ		█ 24	█ 23	---	---
Iron	ppm	● 401	▲ 272	---	---
Copper	ppm	█ 1	█ 4	---	---
Lead	ppm	█ <1	█ 2	---	---
Tin	ppm	█ 0	█ 1	---	---
Aluminum	ppm	● 21	▲ 12	---	---
Chromium	ppm	█ 3	3	---	---
Molybdenum	ppm	█ 2	1	---	---
Nickel	ppm	▲ 14	█ 11	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	<1	2	---	---
Manganese	ppm	█ 3	3	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	█ 12	56	---	---
Magnesium	ppm	█ <1	8	---	---
Zinc	ppm	█ 20	48	---	---
Phosphorus	ppm	█ 1417	1395	---	---
Barium	ppm	█ 0	0	---	---
Boron	ppm	█ 251	146	---	---

MARINE EVOLUTIONS

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Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: vp446360
Unique No: 10589800
Signed: Doug Bogart
Report Date: 08 Aug 2023

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GRAPHS

