

OIL ANALYSIS REPORT



PATRICK WELCH DILLON VOLVO PENTA A530499 - STERNDRIVE - STARBOARD GEARBOX

Sample No: VPA053010
Oil Type: VOLVO PENTA GL-5 SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA053010	VPA055426	---	---
Sample Date	17 Apr 2024	28 Mar 2023	---	---
Machine Hours	370	329	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	SEVERE	ABNORMAL	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 108	104	---	---
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CONTAMINATION

Water	%	▲ 1.71	NEG	---	---
Silicon	ppm	█ 12	▲ 20	---	---
Sodium	ppm	● 110	█ 17	---	---
Potassium	ppm	█ 3	█ <1	---	---

WEAR METALS

PQ		█ 49	█ 29	---	---
Iron	ppm	▲ 311	● 156	---	---
Copper	ppm	█ 3	█ 0	---	---
Lead	ppm	█ 0	█ 0	---	---
Tin	ppm	█ <1	█ 0	---	---
Aluminum	ppm	█ 3	█ 2	---	---
Chromium	ppm	█ 4	█ 2	---	---
Molybdenum	ppm	█ <1	█ 0	---	---
Nickel	ppm	█ 7	█ 7	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█ 5	█ 3	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	█ 40	█ 8	---	---
Magnesium	ppm	█ 27	█ 4	---	---
Zinc	ppm	█ 49	█ 16	---	---
Phosphorus	ppm	█ 1407	█ 1479	---	---
Barium	ppm	█ 1	█ 0	---	---
Boron	ppm	█ 314	█ 334	---	---

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. The iron level is severe. Appearance is milky. There is a high concentration of water present in the oil. The high sodium (Na) level indicates the possible presence of salt water. The oil is no longer serviceable due to the presence of contaminants.

Depot: VP794951
Unique No: 10991725
Signed: Sean Felton
Report Date: 24 Apr 2024

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GRAPHS

