

OIL ANALYSIS REPORT

VOLVO PENTA

ZF 20041959 - PORT DIESEL ENGINE

Sample No: VPA050906

Oil Type: NAPA SAE 30

SAMPLE INFORMATION

Sample Number	VPA050906	---	---	---
Sample Date	09 Oct 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	30	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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US 01880

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OIL CONDITION

Visc @ 100°C	cSt	█ 10.95	---	---	---
Base Number (BN)	mg KOH/g	█ 7.2	---	---	---
Oxidation (PA)	%	█ 23	---	---	---

CONTAMINATION

Soot %	%	█ 0	---	---	---
Nitration (PA)	%	█ 26	---	---	---
Sulfation (PA)	%	█ 35	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	█ 0.2	---	---	---
Silicon	ppm	█ 22	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ <1	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level is abnormal. All other component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	█ 24	---	---	---
Copper	ppm	█ 316	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	▲ 35	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 102	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 2411	---	---	---
Magnesium	ppm	█ 43	---	---	---
Zinc	ppm	█ 1164	---	---	---
Phosphorus	ppm	█ 986	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 10	---	---	---

Depot: VP153550
Unique No: 10697291
Signed: Doug Bogart
Report Date: 25 Oct 2023

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GRAPHS

