

OIL ANALYSIS REPORT

VOLVO PENTA

JOHN KEYES 7716690 VOLVO PENTA A213204 - PORT DIESEL ENGINE

Sample No: VPA055125

Oil Type: NOT GIVEN

SAMPLE INFORMATION

Sample Number	VPA055125	---	---	---
Sample Date	19 Sep 2023	---	---	---
Machine Hours	1056	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

Pacific Power Group - VP981534

7215 S 228th St

Kent, WA

US 98032

Contact: PAT RYAN

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OIL CONDITION

Visc @ 100°C	cSt	█ 14.3	---	---	---
Base Number (BN)	mg KOH/g	█ 9.4	---	---	---
Oxidation (PA)	%	81	---	---	---

Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter 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. Piston, ring and cylinder wear is indicated. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

CONTAMINATION

Soot %	%	█ 0.7	---	---	---
Nitration (PA)	%	95	---	---	---
Sulfation (PA)	%	68	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 11	---	---	---
Sodium	ppm	▲ 426	---	---	---
Potassium	ppm	█ 20	---	---	---

WEAR METALS

Iron	ppm	● 160	---	---	---
Copper	ppm	█ 22	---	---	---
Lead	ppm	█ 7	---	---	---
Tin	ppm	█ 3	---	---	---
Aluminum	ppm	● 237	---	---	---
Chromium	ppm	● 17	---	---	---
Molybdenum	ppm	█ 93	---	---	---
Nickel	ppm	█ 6	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	2	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 1644	---	---	---
Magnesium	ppm	█ 646	---	---	---
Zinc	ppm	█ 985	---	---	---
Phosphorus	ppm	765	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 186	---	---	---

Depot: VP99031103

Unique No: 10673365

Signed: Jonathan Hester

Report Date: 04 Oct 2023

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GRAPHS

