

OIL ANALYSIS REPORT

**VOLVO
PENTA**

DAVID WILLS DAVE WILLS VOLVO PENTA A1201056 - CENTER DIESEL ENGINE

Sample No: VPA049630

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA049630	---	---	---
Sample Date	01 Oct 2023	---	---	---
Machine Hours	109	---	---	---
Oil Hours	109	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

Pacific Power Group - VP981534

7215 S 228th St

Kent, WA

US 98032

Contact: PAT RYAN

pryan@pacificpowergroup.com

T: (253)520-5163

F:

OIL CONDITION

Visc @ 100°C	cSt	█ 12.7	---	---	---
Base Number (BN)	mg KOH/g	█ 9.4	---	---	---
Oxidation (PA)	%	74	---	---	---

Diagnosis

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

CONTAMINATION

Soot %	%	█ 0.5	---	---	---
Nitration (PA)	%	49	---	---	---
Sulfation (PA)	%	60	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 26	---	---	---
Sodium	ppm	█ 5	---	---	---
Potassium	ppm	█ 1	---	---	---

WEAR METALS

Iron	ppm	█ 30	---	---	---
Copper	ppm	█ 19	---	---	---
Lead	ppm	█ 8	---	---	---
Tin	ppm	█ 4	---	---	---
Aluminum	ppm	█ 28	---	---	---
Chromium	ppm	█ 3	---	---	---
Molybdenum	ppm	█ 39	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1609	---	---	---
Magnesium	ppm	█ 459	---	---	---
Zinc	ppm	█ 1062	---	---	---
Phosphorus	ppm	█ 923	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 50	---	---	---

Depot: VP99031103

Unique No: 10687248

Signed: Angela Borella

Report Date: 12 Oct 2023

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GRAPHS

