

OIL ANALYSIS REPORT



JOSH HOFFMAN 7717492 VOLVO PENTA 2203127371 - CENTER DIESEL ENGINE

Sample No: VPA036239

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

SAMPLE INFORMATION

Sample Number	VPA036239	---	---	---
Sample Date	27 Oct 2023	---	---	---
Machine Hours	2432	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

Pacific Power Group - VP981534

7215 S 228th St

Kent, WA

US 98032

Contact: PAT RYAN

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F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.5	---	---	---
Base Number (BN)	mg KOH/g	█ 9.7	---	---	---
Oxidation (PA)	%	71	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	68	---	---	---
Sulfation (PA)	%	60	---	---	---
Glycol	%	█ 0.0	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 15	---	---	---
Sodium	ppm	▲ 118	---	---	---
Potassium	ppm	█ 4	---	---	---

Diagnosis

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. The high sodium (Na) level indicates the possible presence of salt water. Test for glycol is negative. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

WEAR METALS

Iron	ppm	█ 12	---	---	---
Copper	ppm	█ 3	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 100	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 1295	---	---	---
Magnesium	ppm	█ 709	---	---	---
Zinc	ppm	█ 942	---	---	---
Phosphorus	ppm	█ 776	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	█ 243	---	---	---

Depot: VP99031103

Unique No: 10752964

Signed: Jonathan Hester

Report Date: 24 Nov 2023

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VOLVO PENTA

GRAPHS

