

OIL ANALYSIS REPORT

VOLVO PENTA

MICHEAL HELMICK 7717443 VOLVO PENTA A1075877 - CENTER DIESEL ENGINE

Sample No: VPA055170

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA055170	VPA025775	---	---
Sample Date	23 Oct 2023	26 Oct 2021	---	---
Machine Hours	244	153	---	---
Oil Hours	0	153	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

Pacific Power Group - VP981534

7215 S 228th St

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US 98032

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.9	█ 13.4	---	---
Base Number (BN)	mg KOH/g	█ 10.1	---	---	---
Oxidation (PA)	%	55	61	---	---

Diagnosis

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

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.1	█ 0.1	---	---
Nitration (PA)	%	42	43	---	---
Sulfation (PA)	%	52	57	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 8	█ 28	---	---
Sodium	ppm	█ 6	█ 6	---	---
Potassium	ppm	█ 1	█ 0	---	---

WEAR METALS

Iron	ppm	█ 11	█ 19	---	---
Copper	ppm	█ 4	█ 11	---	---
Lead	ppm	█ <1	█ 3	---	---
Tin	ppm	█ <1	█ 0	---	---
Aluminum	ppm	█ 8	█ 9	---	---
Chromium	ppm	█ 1	█ 2	---	---
Molybdenum	ppm	█ 58	█ 44	---	---
Nickel	ppm	█ 1	█ 2	---	---
Titanium	ppm	█ <1	█ <1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	█ 1	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	█ 1192	3475	---	---
Magnesium	ppm	█ 874	166	---	---
Zinc	ppm	█ 1222	█ 1122	---	---
Phosphorus	ppm	█ 1025	█ 997	---	---
Barium	ppm	█ 0	█ <1	---	---
Boron	ppm	█ 48	347	---	---

Depot: VP99031103

Unique No: 10752965

Signed: Don Baldrige

Report Date: 23 Nov 2023

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GRAPHS

