

OIL ANALYSIS REPORT



LEIF ORMSETH 7719373 VOLVO PENTA A1 186748 - CENTER DIESEL ENGINE

Sample No: VPA054310

Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

SAMPLE INFORMATION

Sample Number	VPA054310	VPA05440	---	---
Sample Date	25 Mar 2024	18 Jul 2023	---	---
Machine Hours	300	157	---	---
Oil Hours	150	157	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	MARGINAL	---	---

Pacific Power Group - VP981534

7215 S 228th St

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US 98032

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F:

OIL CONDITION

Visc @ 100°C	cSt	13.0	▲ 12.4	---	---
Base Number (BN)	mg KOH/g	10.4	■ 9.8	---	---
Oxidation (PA)	%	61	76	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.7	■ 0.6	---	---
Nitration (PA)	%	54	55	---	---
Sulfation (PA)	%	55	61	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	■ 0.3	---	---
Silicon	ppm	5	■ 16	---	---
Sodium	ppm	2	■ 2	---	---
Potassium	ppm	<1	■ 3	---	---

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 suitable for further service.

WEAR METALS

Iron	ppm	17	■ 22	---	---
Copper	ppm	13	■ 14	---	---
Lead	ppm	4	■ 4	---	---
Tin	ppm	2	■ 3	---	---
Aluminum	ppm	3	■ 11	---	---
Chromium	ppm	1	■ 2	---	---
Molybdenum	ppm	56	■ 33	---	---
Nickel	ppm	3	■ 2	---	---
Titanium	ppm	0	■ 0	---	---
Silver	ppm	<1	■ 0	---	---
Manganese	ppm	<1	■ 1	---	---
Vanadium	ppm	<1	0	---	---

Diagnosis

ADDITIVES

Calcium	ppm	1257	■ 1486	---	---
Magnesium	ppm	870	■ 458	---	---
Zinc	ppm	1220	■ 1037	---	---
Phosphorus	ppm	1013	■ 811	---	---
Barium	ppm	0	■ 0	---	---
Boron	ppm	9	■ 35	---	---

Depot: VP99031103

Unique No: 10956223

Signed: Jonathan Hester

Report Date: 04 Apr 2024

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GRAPHS

