

OIL ANALYSIS REPORT

VOLVO PENTA

LEIF ORMSETH 7716032 VOLVO PENTA A1 186748 - CENTER DIESEL ENGINE

Sample No: VPA055440

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

SAMPLE INFORMATION

Sample Number	VPA055440	---	---	---
Sample Date	18 Jul 2023	---	---	---
Machine Hours	157	---	---	---
Oil Hours	157	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	MARGINAL	---	---	---

Pacific Power Group - VP981534

7215 S 228th St

Kent, WA

US 98032

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F:

OIL CONDITION

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

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. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

CONTAMINATION

Soot %	%	■ 0.6	---	---	---
Nitration (PA)	%	55	---	---	---
Sulfation (PA)	%	61	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.3	---	---	---
Silicon	ppm	■ 16	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 3	---	---	---

WEAR METALS

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

ADDITIVES

Calcium	ppm	■ 1486	---	---	---
Magnesium	ppm	■ 458	---	---	---
Zinc	ppm	■ 1037	---	---	---
Phosphorus	ppm	■ 811	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 35	---	---	---

Depot: VP99031103

Unique No: 10588463

Signed: Jonathan Hester

Report Date: 08 Aug 2023

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GRAPHS

