

OIL ANALYSIS REPORT



NELSON BALDWIN 7719037 VOLVO PENTA A1166464 - CENTER DIESEL ENGINE

Sample No: VPA048334

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

SAMPLE INFORMATION

Sample Number	VPA048334	---	---	---
Sample Date	27 Feb 2024	---	---	---
Machine Hours	161	---	---	---
Oil Hours	161	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

Pacific Power Group - VP981534

7215 S 228th St

Kent, WA

US 98032

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F:

OIL CONDITION

Visc @ 100°C	cSt	█ 12.7	---	---	---
Base Number (BN)	mg KOH/g	█ 9.7	---	---	---
Oxidation (PA)	%	74	---	---	---

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	---	---	---
Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	48	---	---	---
Sulfation (PA)	%	60	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 19	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 3	---	---	---

WEAR METALS

Iron	ppm	█ 17	---	---	---
Copper	ppm	█ 21	---	---	---
Lead	ppm	█ 11	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 35	---	---	---
Chromium	ppm	█ 3	---	---	---
Molybdenum	ppm	█ 43	---	---	---
Nickel	ppm	█ 5	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	< 1	---	---	---

ADDITIVES

Calcium	ppm	█ 1791	---	---	---
Magnesium	ppm	█ 560	---	---	---
Zinc	ppm	█ 1222	---	---	---
Phosphorus	ppm	█ 1028	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 57	---	---	---

Depot: VP99031103

Unique No: 10915910

Signed: Don Baldrige

Report Date: 11 Mar 2024

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VOLVO PENTA

GRAPHS

