

OIL ANALYSIS REPORT



GARY SWEARINGEN 7719584 VOLVO PENTA A1118518 - CENTER DIESEL ENGINE

Sample No: VPA050845

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

SAMPLE INFORMATION

Sample Number	VPA050845	VPA056775	VPA025737	---
Sample Date	11 Apr 2024	01 May 2023	09 Feb 2022	---
Machine Hours	476	361	185	---
Oil Hours	476	0	185	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ATTENTION	ATTENTION	---

Pacific Power Group - VP981534

7215 S 228th St

Kent, WA

US 98032

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	● 11.8	█ 12.8	---
Base Number (BN)	mg KOH/g	█ 10.0	█ 11.2	█ 11.3	---
Oxidation (PA)	%	58	65	87	---

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 suitable for further service.

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	█ 0.5	█ 0.5	█ 0.5	---
Nitration (PA)	%	48	60	54	---
Sulfation (PA)	%	54	54	68	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	█ 0.4	<1.0	---
Silicon	ppm	█ 6	█ 12	● 31	---
Sodium	ppm	█ 2	█ 41	█ 5	---
Potassium	ppm	█ 0	█ 3	█ 2	---

WEAR METALS

Iron	ppm	█ 16	█ 23	█ 31	---
Copper	ppm	█ 6	█ 11	█ 19	---
Lead	ppm	█ 2	█ 4	█ 7	---
Tin	ppm	█ 1	█ 2	█ 6	---
Aluminum	ppm	█ 8	█ 15	█ 27	---
Chromium	ppm	█ 2	█ 3	█ 3	---
Molybdenum	ppm	█ 60	█ 57	█ 41	---
Nickel	ppm	█ 2	█ 5	█ 4	---
Titanium	ppm	█ 0	█ 0	█ <1	---
Silver	ppm	█ 0	█ 0	█ 0	---
Manganese	ppm	█ <1	█ <1	█ 2	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	█ 1182	█ 1229	█ 1713	---
Magnesium	ppm	909	█ 909	█ 526	---
Zinc	ppm	█ 1197	█ 1246	█ 1103	---
Phosphorus	ppm	█ 1045	█ 1002	█ 957	---
Barium	ppm	█ 0	█ 0	█ 0	---
Boron	ppm	█ 11	█ 9	█ 55	---

Depot: VP99031103

Unique No: 10992761

Signed: Jonathan Hester

Report Date: 25 Apr 2024

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**VOLVO
PENTA**

GRAPHS

