

OIL ANALYSIS REPORT

**VOLVO
PENTA**

A1074011 - CENTER DIESEL ENGINE

Sample No: VPA050504

Oil Type: CHEVRON DELO 400 MULTIGRADE 15W40

SAMPLE INFORMATION

Sample Number	VPA050504	---	---	---
Sample Date	25 Nov 2023	---	---	---
Machine Hours	364	---	---	---
Oil Hours	100	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

GREG WRIGHT

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.6	---	---	---
Base Number (BN)	mg KOH/g	█ 9.2	---	---	---
Oxidation (PA)	%	56	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	57	---	---	---
Sulfation (PA)	%	54	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 1	---	---	---
Potassium	ppm	█ <1	---	---	---

WEAR METALS

Iron	ppm	█ 20	---	---	---
Copper	ppm	█ 7	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 5	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 52	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1464	---	---	---
Magnesium	ppm	█ 796	---	---	---
Zinc	ppm	█ 1038	---	---	---
Phosphorus	ppm	█ 851	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 164	---	---	---

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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.

Depot: VPGREKIN
Unique No: 10767910
Signed: Sean Felton
Report Date: 05 Dec 2023

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GRAPHS

