

OIL ANALYSIS REPORT

**VOLVO
PENTA**

BUENDING GREG ELLIS ONAN B210878816 - GENSET

Sample No: VPA036828

Oil Type: VALVOLINE 15W40

SAMPLE INFORMATION

Sample Number	VPA036828	---	---	---
Sample Date	19 Oct 2023	---	---	---
Machine Hours	131	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	▲ 12.3	---	---	---
Base Number (BN)	mg KOH/g	■ 8.1	---	---	---
Oxidation (PA)	%	66	---	---	---

CONTAMINATION

Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	71	---	---	---
Sulfation (PA)	%	50	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 2.7	---	---	---
Silicon	ppm	■ 15	---	---	---
Sodium	ppm	■ 6	---	---	---
Potassium	ppm	■ <1	---	---	---

WEAR METALS

Iron	ppm	■ 7	---	---	---
Copper	ppm	■ 10	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 42	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 1363	---	---	---
Magnesium	ppm	■ 623	---	---	---
Zinc	ppm	756	---	---	---
Phosphorus	ppm	■ 693	---	---	---
Barium	ppm	■ 9	---	---	---
Boron	ppm	■ 35	---	---	---

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Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Light fuel dilution occurring. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VP648685

Unique No: 10715317

Signed: Jonathan Hester

Report Date: 01 Nov 2023

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GRAPHS

