

OIL ANALYSIS REPORT

**VOLVO
PENTA**

DDME/3537 FISCHER PANDA 2101512 - CENTER GENSET

Sample No: VPA049734

Oil Type: SHELL 15W40

SAMPLE INFORMATION

Sample Number	VPA049734	---	---	---
Sample Date	22 Nov 2023	---	---	---
Machine Hours	332	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

GRAND BANKS

450 SW SALEM RD

STUART, FL

US 34994

Contact: ROBERT ANTONA

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F:

OIL CONDITION

Visc @ 100°C	cSt	▲ 11.3	---	---	---
Base Number (BN)	mg KOH/g	■ 7.9	---	---	---
Oxidation (PA)	%	■ 37	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	■ 38	---	---	---
Sulfation (PA)	%	■ 40	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 1.1	---	---	---
Silicon	ppm	■ 4	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ 0	---	---	---

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. Confirm oil type.

WEAR METALS

Iron	ppm	■ 19	---	---	---
Copper	ppm	■ 0	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 6	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 96	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 0	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 2641	---	---	---
Magnesium	ppm	■ 35	---	---	---
Zinc	ppm	■ 1310	---	---	---
Phosphorus	ppm	■ 1085	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 26	---	---	---

Depot: VP531377

Unique No: 10767912

Signed: Jonathan Hester

Report Date: 08 Dec 2023

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GRAPHS

