

OIL ANALYSIS REPORT

VOLVO PENTA

JOHN ARENDSHORST KOHLER 33JGGMJL0003 - GENSET

Sample No: VPA054930

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA054930	VPA049879	---	---
Sample Date	02 Jul 2024	15 Dec 2023	---	---
Machine Hours	22	17	---	---
Oil Hours	0	17	---	---
Oil Changed	N/A	Not Changd	---	---
Sample Status	NORMAL	SEVERE	---	---

YACHT BASIN MARINA

1866 OTTAWA BEACH RD

HOLLAND, MI

US 49424

Contact: OIL SAMPLE/PART

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OIL CONDITION

Visc @ 100°C	cSt	█ 14.1	---	---	---
Base Number (BN)	mg KOH/g	█ 9.0	48.5	---	---
Oxidation (PA)	%	█ 65	263	---	---

CONTAMINATION

Water	%	NEG	▲ 28.0	---	---
Soot %	%	█ 0	█ 0.9	---	---
Nitration (PA)	%	█ 46	828	---	---
Sulfation (PA)	%	█ 55	0	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 26	▲ 94	---	---
Sodium	ppm	█ 13	█ 16	---	---
Potassium	ppm	█ 5	█ 4	---	---

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.

WEAR METALS

Iron	ppm	█ 21	█ 75	---	---
Copper	ppm	█ 3	█ 6	---	---
Lead	ppm	█ 2	█ 5	---	---
Tin	ppm	█ <1	█ 8	---	---
Aluminum	ppm	█ 2	█ 7	---	---
Chromium	ppm	█ <1	█ 2	---	---
Molybdenum	ppm	17	<1	---	---
Nickel	ppm	█ 0	█ 1	---	---
Titanium	ppm	<1	2	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ 1	5	---	---
Vanadium	ppm	0	<1	---	---

ADDITIVES

Calcium	ppm	█ 1938	1116	---	---
Magnesium	ppm	█ 225	465	---	---
Zinc	ppm	█ 1239	873	---	---
Phosphorus	ppm	█ 1084	818	---	---
Barium	ppm	█ 0	0	---	---
Boron	ppm	█ 138	113	---	---

Depot: VP718610

Unique No: 11114670

Signed: Jonathan Hester

Report Date: 10 Jul 2024

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GRAPHS

