

OIL ANALYSIS REPORT

VOLVO PENTA

PORT - PORT MAIN ENGINE

Sample No: VPA053525

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA053525	---	---	---
Sample Date	11 Jul 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	541	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 13.5	---	---	---
Oxidation (PA)	%	█ 81	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.8	---	---	---
Nitration (PA)	%	█ 83	---	---	---
Sulfation (PA)	%	█ 65	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 14	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 2	---	---	---

WEAR METALS

Iron	ppm	█ 22	---	---	---
Copper	ppm	● 143	---	---	---
Lead	ppm	█ 4	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 45	---	---	---
Nickel	ppm	▲ 5	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	█ 0	---	---	---

ADDITIVES

Calcium	ppm	█ 1917	---	---	---
Magnesium	ppm	█ 345	---	---	---
Zinc	ppm	█ 1157	---	---	---
Phosphorus	ppm	█ 943	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	█ 31	---	---	---

1000 ISLANDS CRUISES

248 ONTARIO ST
KINGSTON, ON
CA K7L 5P7

Contact: Service Manager
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F:

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample. Nickel ppm levels are abnormal. Copper ppm levels are noted. Exhaust valve wear is indicated. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: 100KIN

Unique No: 5813127

Signed: Kevin Marson

Report Date: 15 Jul 2024

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GRAPHS

