

OIL ANALYSIS REPORT

VOLVO PENTA

ROBERT KADE VOLVO PENTA 4012058650 - PORT GASOLINE ENGINE

Sample No: VPA055525

Oil Type: NOT GIVEN

SAMPLE INFORMATION

Sample Number	VPA055525	---	---	---
Sample Date	25 Sep 2023	---	---	---
Machine Hours	555	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

MELBOURNE MARINE DIESEL

MELBOURNE, FL

US

Contact: SERVICE MANAGER

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T: (321)425-2517

F:

OIL CONDITION

Visc @ 100°C	cSt	█ 12.8	---	---	---
Base Number (BN)	mg KOH/g	█ 5.6	---	---	---
Oxidation (PA)	%	15	---	---	---

CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	10	---	---	---
Sulfation (PA)	%	12	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 12	---	---	---
Sodium	ppm	▲ 736	---	---	---
Potassium	ppm	▲ 37	---	---	---

WEAR METALS

Iron	ppm	▲ 242	---	---	---
Copper	ppm	▲ 201	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 13	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	44	---	---	---
Nickel	ppm	█ 3	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	3	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	1768	---	---	---
Magnesium	ppm	125	---	---	---
Zinc	ppm	796	---	---	---
Phosphorus	ppm	649	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	27	---	---	---

Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition. The copper level is abnormal. Cylinder, crank, or cam shaft wear is indicated. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot: VP1222400

Unique No: 10662789

Signed: Jonathan Hester

Report Date: 28 Sep 2023

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GRAPHS

