

OIL ANALYSIS REPORT

VOLVO PENTA

LEYRER KOHLER 2007094 - GENSET

Sample No: VPA058206

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA058206	---	---	---
Sample Date	20 Dec 2023	---	---	---
Machine Hours	664	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

Walstrom Marine - 767948

501 Bay Street
HARBOR SPRINGS, MI
US 49740

Contact: RICK HEINY
rheiny@walstrom.com

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F:

OIL CONDITION

Base Number (BN) mg KOH/g	█ 11.5	---	---	---
Oxidation (PA) %	█ 67	---	---	---

CONTAMINATION

Water %	▲ 0.972	---	---	---
Soot %	█ 0.1	---	---	---
Nitration (PA) %	█ 69	---	---	---
Sulfation (PA) %	█ 44	---	---	---
Glycol %	█ NEG	---	---	---
Fuel %	█ <1.0	---	---	---
Silicon ppm	█ 8	---	---	---
Sodium ppm	█ 2	---	---	---
Potassium ppm	█ 4	---	---	---

Diagnosis

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please note that there was too much water present in the oil to perform a viscosity test. All component wear rates are normal. Appearance is milky. There is a high concentration of water present in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil.

WEAR METALS

Iron ppm	█ 30	---	---	---
Copper ppm	█ 7	---	---	---
Lead ppm	█ 1	---	---	---
Tin ppm	█ <1	---	---	---
Aluminum ppm	█ 2	---	---	---
Chromium ppm	█ <1	---	---	---
Molybdenum ppm	█ 40	---	---	---
Nickel ppm	█ <1	---	---	---
Titanium ppm	█ <1	---	---	---
Silver ppm	█ <1	---	---	---
Manganese ppm	█ <1	---	---	---
Vanadium ppm	█ 0	---	---	---

ADDITIVES

Calcium ppm	█ 1583	---	---	---
Magnesium ppm	█ 438	---	---	---
Zinc ppm	█ 1143	---	---	---
Phosphorus ppm	█ 931	---	---	---
Barium ppm	█ 8	---	---	---
Boron ppm	█ 69	---	---	---

Depot: VP154879

Unique No: 10819339

Signed: Jonathan Hester

Report Date: 09 Jan 2024

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GRAPHS

