

OIL ANALYSIS REPORT

**VOLVO
PENTA**

H14357 CUMMINS/ONAN A190469045 - GENSET

Sample No: VPA048771

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA048771	---	---	---
Sample Date	29 Aug 2023	---	---	---
Machine Hours	700	---	---	---
Oil Hours	218	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

Walstrom Marine

501 Bay Street
HARBOR SPRINGS, MI
US 49740

Contact: MARK LEWIS
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F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	---	---	---
Base Number (BN)	mg KOH/g	█ 8.6	---	---	---
Oxidation (PA)	%	62	---	---	---

CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	57	---	---	---
Sulfation (PA)	%	56	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ < 1	---	---	---

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 acceptable for the time in service.

WEAR METALS

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

ADDITIVES

Calcium	ppm	█ 1455	---	---	---
Magnesium	ppm	█ 594	---	---	---
Zinc	ppm	█ 1366	---	---	---
Phosphorus	ppm	█ 1103	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 300	---	---	---

Depot: VP154879

Unique No: 10632404

Signed: Sean Felton

Report Date: 06 Sep 2023

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GRAPHS

