

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

**3708/RICOCHET CUMMINS/ONAN C150801092 - CENTER GENSET**

**Sample No:** VPA054448  
**Oil Type:** VALVOLINE 15W40

## SAMPLE INFORMATION

Sample Number	VPA054448	---	---	---
Sample Date	21 Feb 2024	---	---	---
Machine Hours	1336	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	SEVERE	---	---	---

### GRAND BANKS

450 SW SALEM RD  
STUART, FL  
US 34994  
Contact: ROBERT ANTONA  
roberta@gbmarinegroup.com  
T: (609)384-5290  
F:

## OIL CONDITION

Visc @ 100°C	cSt	▲ 7.6	---	---	---
Base Number (BN)	mg KOH/g	■ 5.8	---	---	---
Oxidation (PA)	%	89	---	---	---

## CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.8	---	---	---
Nitration (PA)	%	72	---	---	---
Sulfation (PA)	%	63	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 25.2	---	---	---
Silicon	ppm	■ 13	---	---	---
Sodium	ppm	▲ 60	---	---	---
Potassium	ppm	▲ 133	---	---	---

## WEAR METALS

Iron	ppm	▲ 113	---	---	---
Copper	ppm	■ 28	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 4	---	---	---
Chromium	ppm	■ 2	---	---	---
Molybdenum	ppm	■ 73	---	---	---
Nickel	ppm	■ 1	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	<1	---	---	---

## ADDITIVES

Calcium	ppm	976	---	---	---
Magnesium	ppm	■ 856	---	---	---
Zinc	ppm	■ 1186	---	---	---
Phosphorus	ppm	■ 977	---	---	---
Barium	ppm	■ 2	---	---	---
Boron	ppm	8	---	---	---

## Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. Cylinder, crank, or cam shaft wear is indicated. Sodium and/or potassium levels are high. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

**Depot:** VP531377  
**Unique No:** 10900452  
**Signed:** Jonathan Hester  
**Report Date:** 04 Mar 2024

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## GRAPHS

