

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## REINBOTH 520-242 CUMMINS I2 10982790 - GENSET

Sample No: VPA056230

Oil Type: SHELL ROTELLA T 15W40

### SAMPLE INFORMATION

Sample Number	VPA056230	---	---	---
Sample Date	24 Oct 2023	---	---	---
Machine Hours	214	---	---	---
Oil Hours	214	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	MARGINAL	---	---	---

### Outstanding Marine

PO Box 274  
GALENA, MD  
US 21635  
Contact: Ronda Bolinger  
rlwb@verizon.net  
T:  
F:

### OIL CONDITION

Visc @ 100°C	cSt	▲ 12.4	---	---	---
Base Number (BN)	mg KOH/g	■ 9.8	---	---	---
Oxidation (PA)	%	65	---	---	---

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	63	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 2.0	---	---	---
Silicon	ppm	■ 21	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 2	---	---	---

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Light fuel dilution occurring. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

### WEAR METALS

Iron	ppm	■ 18	---	---	---
Copper	ppm	■ 13	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 61	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 3	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	■ 1625	---	---	---
Magnesium	ppm	■ 624	---	---	---
Zinc	ppm	■ 924	---	---	---
Phosphorus	ppm	■ 742	---	---	---
Barium	ppm	■ 8	---	---	---
Boron	ppm	49	---	---	---

Depot: VP153685  
Unique No: 10764055  
Signed: Jonathan Hester  
Report Date: 01 Dec 2023

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## GRAPHS

