

# OIL ANALYSIS REPORT

# VOLVO PENTA

**JIM SCOTT R812622M ROGER CUMMINS/ONAN J140753877 - STARBOARD GENSET**

**Sample No:** VPA045461

**Oil Type:** DIESEL ENGINE OIL SAE 40

## SAMPLE INFORMATION

Sample Number	VPA045461	---	---	---
Sample Date	29 Aug 2023	---	---	---
Machine Hours	1799	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

## OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	---	---	---
Base Number (BN)	mg KOH/g	█ 9.0	---	---	---
Oxidation (PA)	%	65	---	---	---

## CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	56	---	---	---
Sulfation (PA)	%	61	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 7	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 5	---	---	---

## WEAR METALS

Iron	ppm	█ 8	---	---	---
Copper	ppm	█ <1	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 101	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

## ADDITIVES

Calcium	ppm	█ 1882	---	---	---
Magnesium	ppm	█ 566	---	---	---
Zinc	ppm	█ 1022	---	---	---
Phosphorus	ppm	█ 824	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 340	---	---	---

**Power Products Systems LLC**  
432 Warren Avenue, 432 Warren Ave.  
PORTLAND, ME  
US 04103  
Contact: Victor Barr  
meservice@nedda.com  
T: (207)797-5950  
F:

## Diagnosis

No corrective action is recommended at this time. 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.

**Depot:** VP153549  
**Unique No:** 10631058  
**Signed:** Sean Felton  
**Report Date:** 05 Sep 2023

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## GRAPHS

