

# OIL ANALYSIS REPORT

# VOLVO PENTA

**GERHARD SENFT R815341 VOLVO PENTA A443573 - DIESEL ENGINE**

**Sample No:** VPA050995

**Oil Type:** VOLVO PENTA SAE 15W40

## SAMPLE INFORMATION

Sample Number	VPA050995	---	---	---
Sample Date	19 Oct 2023	---	---	---
Machine Hours	8227	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

### Power Products Systems LLC

90 Bay State Road

WAKEFIELD, MA

US 01880

Contact: Andy Tassinari

atassinari@nedda.com

T: (781)844-0680

F: (781)246-1812

## OIL CONDITION

Visc @ 100°C	cSt	█ 15.3	---	---	---
Base Number (BN)	mg KOH/g	█ 7.9	---	---	---
Oxidation (PA)	%	█ 31	---	---	---

## CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	█ 42	---	---	---
Sulfation (PA)	%	█ 45	---	---	---
Glycol	%	⬮ 0.12	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 7	---	---	---
Sodium	ppm	▲ 3704	---	---	---
Potassium	ppm	▲ 140	---	---	---

## WEAR METALS

Iron	ppm	▲ 126	---	---	---
Copper	ppm	█ 17	---	---	---
Lead	ppm	█ 5	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	⬮ 52	---	---	---
Chromium	ppm	█ 3	---	---	---
Molybdenum	ppm	█ 3	---	---	---
Nickel	ppm	▲ 5	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	█ 0	---	---	---

## ADDITIVES

Calcium	ppm	█ 1442	---	---	---
Magnesium	ppm	█ 1631	---	---	---
Zinc	ppm	█ 1261	---	---	---
Phosphorus	ppm	█ 1060	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 20	---	---	---

## Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Piston and cylinder wear is indicated. Valve wear is indicated. Sodium and/or potassium levels are high. Test for glycol is positive. 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:** VP153550

**Unique No:** 10709755

**Signed:** Jonathan Hester

**Report Date:** 25 Oct 2023

# OIL ANALYSIS REPORT

# VOLVO PENTA

## GRAPHS

