

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

**JE DUNN 6614 ONAN 505-20 I070104350 - GENSET**

**Sample No:** VPA060817

**Oil Type:** {unknown}

## SAMPLE INFORMATION

Sample Number	VPA060817	---	---	---
Sample Date	15 Apr 2024	---	---	---
Machine Hours	1421	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	SEVERE	---	---	---

### Northwest Diesel Power

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BELLINGHAM, WA  
US 98225  
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## OIL CONDITION

Base Number (BN) mg KOH/g	44.1	---	---	---
Oxidation (PA) %	344	---	---	---

## CONTAMINATION

Water %	▲ 30.7	---	---	---
Soot %	■ 1	---	---	---
Nitration (PA) %	1070	---	---	---
Sulfation (PA) %	0	---	---	---
Glycol %	▲ 0.10	---	---	---
Fuel %	<1.0	---	---	---
Silicon ppm	■ 11	---	---	---
Sodium ppm	▲ 2608	---	---	---
Potassium ppm	▲ 116	---	---	---

## WEAR METALS

Iron ppm	▲ 163	---	---	---
Copper ppm	■ 4	---	---	---
Lead ppm	■ 1	---	---	---
Tin ppm	■ 2	---	---	---
Aluminum ppm	▲ 34	---	---	---
Chromium ppm	▲ 4	---	---	---
Molybdenum ppm	13	---	---	---
Nickel ppm	■ 3	---	---	---
Titanium ppm	1	---	---	---
Silver ppm	■ <1	---	---	---
Manganese ppm	2	---	---	---
Vanadium ppm	<1	---	---	---

## ADDITIVES

Calcium ppm	1049	---	---	---
Magnesium ppm	872	---	---	---
Zinc ppm	703	---	---	---
Phosphorus ppm	623	---	---	---
Barium ppm	1	---	---	---
Boron ppm	126	---	---	---

## Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Please note that there was too much water present in the oil to perform a viscosity test. Piston, ring and cylinder wear is indicated. Sodium and/or potassium levels are high. Appearance is milky. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

**Depot:** VP759009  
**Unique No:** 10983030  
**Signed:** Jonathan Hester  
**Report Date:** 23 Apr 2024

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## GRAPHS

