

# OIL ANALYSIS REPORT

# VOLVO PENTA

**DON GREEN 6592 HINO W06D TA11929 - PORT DIESEL ENGINE**

**Sample No:** VPA060011

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

## SAMPLE INFORMATION

Sample Number	VPA060011	---	---	---
Sample Date	10 Apr 2024	---	---	---
Machine Hours	1109	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	MARGINAL	---	---	---

**Northwest Diesel Power**  
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BELLINGHAM, WA  
US 98225  
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## OIL CONDITION

Visc @ 100°C	cSt	█ 13.2	---	---	---
Base Number (BN)	mg KOH/g	█ 7.8	---	---	---
Oxidation (PA)	%	58	---	---	---

## Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is abnormal. All other 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.

## CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	70	---	---	---
Sulfation (PA)	%	51	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 3	---	---	---

## WEAR METALS

Iron	ppm	█ 28	---	---	---
Copper	ppm	█ 8	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	▲ 23	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 28	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---

## ADDITIVES

Calcium	ppm	█ 1421	---	---	---
Magnesium	ppm	█ 597	---	---	---
Zinc	ppm	█ 950	---	---	---
Phosphorus	ppm	█ 882	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	█ 235	---	---	---

**Depot:** VP759009  
**Unique No:** 10978573  
**Signed:** Doug Bogart  
**Report Date:** 16 Apr 2024

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## GRAPHS

