

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

**PHIL HOLT DANIEL 1502330 VOLVO PENTA A1208477 - CENTER DIESEL ENGINE**

**Sample No:** VPA050678

**Oil Type:** VOLVO VDS-4.5 Premium Motor Oil 15W40

## SAMPLE INFORMATION

Sample Number	VPA050678	---	---	---
Sample Date	29 Aug 2023	---	---	---
Machine Hours	50	---	---	---
Oil Hours	50	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

**Endor Marine LLC - Coastal Marine - 152124**  
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## OIL CONDITION

Visc @ 100°C	cSt	█ 13.0	---	---	---
Base Number (BN)	mg KOH/g	█ 9.6	---	---	---
Oxidation (PA)	%	56	---	---	---

## Diagnosis

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.

## CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	38	---	---	---
Sulfation (PA)	%	51	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 16	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 1	---	---	---

## WEAR METALS

Iron	ppm	█ 6	---	---	---
Copper	ppm	█ 10	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 56	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---

## ADDITIVES

Calcium	ppm	█ 1133	---	---	---
Magnesium	ppm	913	---	---	---
Zinc	ppm	█ 1296	---	---	---
Phosphorus	ppm	█ 1064	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 0	---	---	---

**Depot:** VP794951  
**Unique No:** 10630624  
**Signed:** Sean Felton  
**Report Date:** 05 Sep 2023

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## GRAPHS

