

# OIL ANALYSIS REPORT

# VOLVO PENTA

**RICHARD ANDERSON PATRICK/502237-5250 VOLVO PENTA 20132153184 - PORT DIESEL ENGINE**

**Sample No:** VPA055607

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

## SAMPLE INFORMATION

Sample Number	VPA055607	---	---	---
Sample Date	07 Jul 2023	---	---	---
Machine Hours	205	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

**Endor Marine LLC - Coastal Marine - 152124**  
4300 11th Ave. NW  
SEATTLE, WA  
US 98107  
Contact: WILLOW YANARELLA  
service@coastalmarineengine.com  
T: (206)784-3703  
F: (206)784-8823

## OIL CONDITION

Visc @ 100°C	cSt	█ 12.5	---	---	---
Base Number (BN)	mg KOH/g	█ 8.8	---	---	---
Oxidation (PA)	%	76	---	---	---

## 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 suitable for further service.

## CONTAMINATION

Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	58	---	---	---
Sulfation (PA)	%	58	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 35	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 21	---	---	---

## WEAR METALS

Iron	ppm	█ 11	---	---	---
Copper	ppm	█ 27	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 12	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 51	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	<1	---	---	---

## ADDITIVES

Calcium	ppm	█ 1904	---	---	---
Magnesium	ppm	█ 453	---	---	---
Zinc	ppm	█ 1045	---	---	---
Phosphorus	ppm	█ 809	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 52	---	---	---

**Depot:** VP794951  
**Unique No:** 10592883  
**Signed:** Jonathan Hester  
**Report Date:** 11 Aug 2023

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## GRAPHS

