

# [MIKE WALLS] VOLVO PENTA 7009149668 - PORT DIESEL ENGINE

**Sample No:** VPA049993

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

## SAMPLE INFORMATION

Sample Number	VPA049993	---	---	---
Sample Date	24 May 2024	---	---	---
Machine Hours	771	---	---	---
Oil Hours	2	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

**Michigan Yachcrafters Inc**  
 31785 S. River Road  
 HARRISON TOWNSHIP, MI  
 US 48045  
 Contact: Garrett Cassidy  
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 T:  
 F:

## OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	---	---	---
Base Number (BN)	mg KOH/g	█ 9.9	---	---	---
Oxidation (PA)	%	54	---	---	---

## Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The wear metal levels do not reflect the reported loss of pressure. 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

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	40	---	---	---
Sulfation (PA)	%	50	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 1	---	---	---
Potassium	ppm	█ 2	---	---	---

## WEAR METALS

Iron	ppm	█ 2	---	---	---
Copper	ppm	█ 1	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 57	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---

## ADDITIVES

Calcium	ppm	979	---	---	---
Magnesium	ppm	908	---	---	---
Zinc	ppm	█ 1186	---	---	---
Phosphorus	ppm	█ 1023	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 2	---	---	---

**Depot:** VP151756  
**Unique No:** 11050475  
**Signed:** Jonathan Hester  
**Report Date:** 31 May 2024

Contact/Location: Garrett Cassidy - VP151756

# GRAPHS

