

# OIL ANALYSIS REPORT

# VOLVO PENTA

## RICK MORRIS JF VOLVO PENTA A408297 - STARBOARD DIESEL ENGINE

**Sample No:** VPA052583  
**Oil Type:** VOLVO PENTA SAE 15W40

### SAMPLE INFORMATION

Sample Number	VPA052583	---	---	---
Sample Date	09 Jul 2024	---	---	---
Machine Hours	309	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

**TOTAL MARINE OF MARYLAND INC**  
106 WELLS COVE ROAD SUITE 2  
GRASONVILLE, MD  
US 21638  
Contact: JAMIE FLAHERTY  
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T: (410)604-6000  
F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 14.4	---	---	---
Base Number (BN)	mg KOH/g	█ 10.4	---	---	---
Oxidation (PA)	%	38	---	---	---

### 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

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	48	---	---	---
Sulfation (PA)	%	45	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 2	---	---	---

### WEAR METALS

Iron	ppm	█ 9	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ < 1	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	█ 47	---	---	---
Nickel	ppm	█ < 1	---	---	---
Titanium	ppm	█ < 1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ < 1	---	---	---
Vanadium	ppm	< 1	---	---	---

### ADDITIVES

Calcium	ppm	█ 2179	---	---	---
Magnesium	ppm	█ 350	---	---	---
Zinc	ppm	█ 974	---	---	---
Phosphorus	ppm	█ 822	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 92	---	---	---

**Depot:** VP1130693  
**Unique No:** 11115560  
**Signed:** Don Baldrige  
**Report Date:** 11 Jul 2024

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## GRAPHS

