

# OIL ANALYSIS REPORT

# VOLVO PENTA

## MORALES MORALES VOLVO PENTA A1086232 - STARBOARD DIESEL ENGINE

Sample No: VPA048779

Oil Type: VOLVO PENTA SAE 15W40

### SAMPLE INFORMATION

Sample Number	VPA048779	---	---	---
Sample Date	12 Oct 2023	---	---	---
Machine Hours	200	---	---	---
Oil Hours	200	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

### OIL CONDITION

Visc @ 100°C	cSt	█ 13.8	---	---	---
Base Number (BN)	mg KOH/g	█ 9.5	---	---	---
Oxidation (PA)	%	58	---	---	---

### CONTAMINATION

Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	48	---	---	---
Sulfation (PA)	%	54	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 3	---	---	---

### WEAR METALS

Iron	ppm	█ 9	---	---	---
Copper	ppm	█ 5	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 4	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 32	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	█ 1605	---	---	---
Magnesium	ppm	436	---	---	---
Zinc	ppm	█ 1145	---	---	---
Phosphorus	ppm	█ 858	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 86	---	---	---

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### Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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.

**Depot:** VP152567  
**Unique No:** 10696628  
**Signed:** Sean Felton  
**Report Date:** 17 Oct 2023

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## GRAPHS

