

# OIL ANALYSIS REPORT

# VOLVO PENTA

## BOUTWELL BOUTWELL VOLVO PENTA 5102001363 - STARBOARD DIESEL ENGINE

Sample No: VPA056770

Oil Type: VOLVO PENTA SAE 15W40

### SAMPLE INFORMATION

Sample Number	VPA056770	---	---	---
Sample Date	27 Nov 2023	---	---	---
Machine Hours	500	---	---	---
Oil Hours	6	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

### OIL CONDITION

Visc @ 100°C	cSt	█ 14.3	---	---	---
Base Number (BN)	mg KOH/g	█ 9.8	---	---	---
Oxidation (PA)	%	42	---	---	---

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	46	---	---	---
Sulfation (PA)	%	45	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 2	---	---	---

### WEAR METALS

Iron	ppm	█ 13	---	---	---
Copper	ppm	█ 3	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 77	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	2939	---	---	---
Magnesium	ppm	56	---	---	---
Zinc	ppm	█ 1337	---	---	---
Phosphorus	ppm	█ 1145	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 15	---	---	---

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### 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.

**Depot:** VP152567  
**Unique No:** 10765417  
**Signed:** Don Baldrige  
**Report Date:** 03 Dec 2023

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## GRAPHS

