

# OIL ANALYSIS REPORT

# VOLVO PENTA

## JAMES MOSSMAN ALAN VOLVO PENTA 7011382564 - STARBOARD DIESEL ENGINE

**Sample No:** VPA059423  
**Oil Type:** VOLVO PENTA SAE 15W40

### SAMPLE INFORMATION

Sample Number	VPA059423	VPA026831	VPA035255	---
Sample Date	18 Oct 2023	18 Nov 2022	03 Nov 2021	---
Machine Hours	403	381	357	---
Oil Hours	22	25	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

**Precision Marine Center Llc**  
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 US 10805  
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### OIL CONDITION

Visc @ 100°C	cSt	█ 13.9	█ 13.0	█ 13.1	---
Base Number (BN)	mg KOH/g	█ 9.8	█ 11.4	---	---
Oxidation (PA)	%	61	59	55	---

### CONTAMINATION

Soot %	%	█ 0.1	█ 0.1	█ 0.1	---
Nitration (PA)	%	50	45	45	---
Sulfation (PA)	%	52	55	52	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	█ 6	█ 6	█ 6	---
Sodium	ppm	█ 3	█ 0	█ 1	---
Potassium	ppm	█ 1	█ 1	█ 0	---

### 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.

### WEAR METALS

Iron	ppm	█ 2	█ 3	█ 3	---
Copper	ppm	█ 4	█ 7	█ 11	---
Lead	ppm	█ <1	█ <1	█ <1	---
Tin	ppm	█ <1	█ 0	█ <1	---
Aluminum	ppm	█ 2	█ <1	█ <1	---
Chromium	ppm	█ 0	█ 0	█ <1	---
Molybdenum	ppm	█ 44	█ 58	█ 52	---
Nickel	ppm	█ <1	█ 0	█ <1	---
Titanium	ppm	█ 0	█ 0	█ <1	---
Silver	ppm	█ 0	█ 0	█ <1	---
Manganese	ppm	█ <1	█ <1	█ <1	---
Vanadium	ppm	0	0	0	---

### ADDITIVES

Calcium	ppm	█ 1465	█ 1110	█ 1318	---
Magnesium	ppm	583	█ 884	█ 841	---
Zinc	ppm	█ 1309	█ 1216	█ 1236	---
Phosphorus	ppm	█ 1062	█ 1029	█ 1097	---
Barium	ppm	█ 0	█ 0	█ 0	---
Boron	ppm	█ 51	█ 2	█ 6	---

**Depot:** VP850387  
**Unique No:** 10708775  
**Signed:** Don Baldrige  
**Report Date:** 25 Oct 2023

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## GRAPHS

