

# OIL ANALYSIS REPORT

# VOLVO PENTA

## 3870/44-19 VOLVO PENTA A1122799 - STARBOARD DIESEL ENGINE

**Sample No:** VPA054160  
**Oil Type:** VOLVO PENTA SAE 15W40

### SAMPLE INFORMATION

Sample Number	VPA054160	---	---	---
Sample Date	24 May 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

### GRAND BANKS

450 SW SALEM RD  
STUART, FL  
US 34994  
Contact: ROBERT ANTONA  
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T: (609)384-5290  
F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	---	---	---
Base Number (BN)	mg KOH/g	█ 10.3	---	---	---
Oxidation (PA)	%	55	---	---	---

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.5	---	---	---
Nitration (PA)	%	50	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ < 1	---	---	---
Potassium	ppm	█ 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 acceptable for the time in service.

### WEAR METALS

Iron	ppm	█ 26	---	---	---
Copper	ppm	█ 5	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 5	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 58	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ < 1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	█ 1237	---	---	---
Magnesium	ppm	█ 911	---	---	---
Zinc	ppm	█ 1255	---	---	---
Phosphorus	ppm	█ 1067	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 26	---	---	---

**Depot:** VP531377  
**Unique No:** 11060586  
**Signed:** Don Baldrige  
**Report Date:** 05 Jun 2024

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## GRAPHS

