

# OIL ANALYSIS REPORT

# VOLVO PENTA

## LUECK VOLVO PENTA A1089757 - STARBOARD DIESEL ENGINE

**Sample No:** VPA036803  
**Oil Type:** DIESEL ENGINE OIL SAE 40

### SAMPLE INFORMATION

Sample Number	VPA036803	---	---	---
Sample Date	30 Jul 2023	---	---	---
Machine Hours	103	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

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Orange, CA  
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### OIL CONDITION

Visc @ 100°C	cSt	█ 13.51	---	---	---
Base Number (BN)	mg KOH/g	█ 9.2	---	---	---
Oxidation (PA)	%	56	---	---	---

### Diagnosis

No corrective action is recommended at this time. 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

Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	43	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 27	---	---	---
Sodium	ppm	█ 6	---	---	---
Potassium	ppm	█ 3	---	---	---

### WEAR METALS

Iron	ppm	█ 24	---	---	---
Copper	ppm	█ 18	---	---	---
Lead	ppm	█ 4	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 9	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 43	---	---	---
Nickel	ppm	█ 3	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	█ 3082	---	---	---
Magnesium	ppm	█ 104	---	---	---
Zinc	ppm	█ 1120	---	---	---
Phosphorus	ppm	█ 973	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 376	---	---	---

**Depot:** VP867279  
**Unique No:** 10578394  
**Signed:** Doug Bogart  
**Report Date:** 31 Jul 2023

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## GRAPHS

