

# OIL ANALYSIS REPORT

# VOLVO PENTA

## VOLVO PENTA 2006041587 - STARBOARD DIESEL ENGINE

Sample No: VPA048750

Oil Type: DIESEL ENGINE OIL SAE 15W40

### SAMPLE INFORMATION

Sample Number	VPA048750	---	---	---
Sample Date	12 Jul 2023	---	---	---
Machine Hours	484	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

#### Viking Boat Harbor Inc

1121 S. Islington Rd.

CEDARVILLE, MI

US 49719

Contact: Steve Honnila

stevehonnila@gmail.com

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### OIL CONDITION

Visc @ 100°C	cSt	█ 13.8	---	---	---
Base Number (BN)	mg KOH/g	█ 10.0	---	---	---
Oxidation (PA)	%	61	---	---	---

### CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	52	---	---	---
Sulfation (PA)	%	54	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ <1	---	---	---
Potassium	ppm	█ 4	---	---	---

### 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	█ 3	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ <1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 52	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

### ADDITIVES

Calcium	ppm	█ 1334	---	---	---
Magnesium	ppm	█ 909	---	---	---
Zinc	ppm	█ 1339	---	---	---
Phosphorus	ppm	█ 1087	---	---	---
Barium	ppm	█ 1	---	---	---
Boron	ppm	█ 28	---	---	---

Depot: VP155388

Unique No: 10562040

Signed: Don Baldrige

Report Date: 19 Jul 2023

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## GRAPHS

