

# OIL ANALYSIS REPORT

# VOLVO PENTA

## VOLVO PENTA 2006009023 - PORT DIESEL ENGINE

Sample No: VPA059606

Oil Type: SHELL ROTELLA T4 15W40

### SAMPLE INFORMATION

Sample Number	VPA059606	---	---	---
Sample Date	24 Jun 2024	---	---	---
Machine Hours	792	---	---	---
Oil Hours	10	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	ABNORMAL	---	---	---

### Seaborn Marina Inc.

87 Ocean Ave.  
BAY SHORE, NY  
US 11706  
Contact: MIKE KORNISH  
mikek@seabornmarina.com  
T:  
F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 14.57	---	---	---
Base Number (BN)	mg KOH/g	█ 9.5	---	---	---
Oxidation (PA)	%	64	---	---	---

### CONTAMINATION

Water	%	▲ 0.010	---	---	---
Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	61	---	---	---
Sulfation (PA)	%	58	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 7	---	---	---
Sodium	ppm	● 2105	---	---	---
Potassium	ppm	▲ 85	---	---	---

### WEAR METALS

Iron	ppm	▲ 108	---	---	---
Copper	ppm	█ 10	---	---	---
Lead	ppm	█ 4	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	▲ 50	---	---	---
Chromium	ppm	█ 4	---	---	---
Molybdenum	ppm	█ 17	---	---	---
Nickel	ppm	█ 4	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	<1	---	---	---

### ADDITIVES

Calcium	ppm	█ 1990	---	---	---
Magnesium	ppm	611	---	---	---
Zinc	ppm	█ 1263	---	---	---
Phosphorus	ppm	█ 1081	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 118	---	---	---

### Diagnosis

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Aluminum and iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated. Sodium and/or potassium levels are high. The high sodium (Na) level indicates the possible presence of salt water. There is a trace of moisture present in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: VP543511  
Unique No: 11102180  
Signed: Doug Bogart  
Report Date: 28 Jun 2024

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## GRAPHS

