

# OIL ANALYSIS REPORT

# VOLVO PENTA

## VOLVO PENTA 2006009022 - STARBOARD DIESEL ENGINE

Sample No: VPA06223982

Oil Type: SHELL ROTELLA T4 15W40

### SAMPLE INFORMATION

Sample Number	VPA06223982	---	---	---
Sample Date	24 Jun 2024	---	---	---
Machine Hours	812	---	---	---
Oil Hours	28	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

#### Seaborn Marina Inc.

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US 11706  
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T:  
F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 14.69	---	---	---
Base Number (BN)	mg KOH/g	█ 8.5	---	---	---
Oxidation (PA)	%	65	---	---	---

### 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

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	53	---	---	---
Sulfation (PA)	%	55	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ 5	---	---	---
Potassium	ppm	█ 7	---	---	---

### WEAR METALS

Iron	ppm	█ 13	---	---	---
Copper	ppm	█ 3	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 17	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	<1	---	---	---

### ADDITIVES

Calcium	ppm	█ 1929	---	---	---
Magnesium	ppm	█ 242	---	---	---
Zinc	ppm	█ 1237	---	---	---
Phosphorus	ppm	█ 1083	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 123	---	---	---

Depot: VP543511  
Unique No: 11102179  
Signed: Doug Bogart  
Report Date: 28 Jun 2024

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## GRAPHS

