

# OIL ANALYSIS REPORT

# VOLVO PENTA

## BRIAN MAGISTRO CATERPILLAR 01234007 - STARBOARD DIESEL ENGINE

Sample No: VPA034302

Oil Type: NOT GIVEN

### SAMPLE INFORMATION

Sample Number	VPA034302	---	---	---
Sample Date	16 Aug 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

### OIL CONDITION

Visc @ 100°C	cSt	█ 15.0	---	---	---
Base Number (BN)	mg KOH/g	█ 7.9	---	---	---
Oxidation (PA)	%	69	---	---	---

### CONTAMINATION

Soot %	%	█ 0.4	---	---	---
Nitration (PA)	%	65	---	---	---
Sulfation (PA)	%	58	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 7	---	---	---
Sodium	ppm	█ 14	---	---	---
Potassium	ppm	█ 16	---	---	---

### WEAR METALS

Iron	ppm	█ 46	---	---	---
Copper	ppm	█ 39	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 8	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	█ < 1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	< 1	---	---	---
Vanadium	ppm	< 1	---	---	---

### ADDITIVES

Calcium	ppm	█ 2203	---	---	---
Magnesium	ppm	█ 16	---	---	---
Zinc	ppm	█ 1190	---	---	---
Phosphorus	ppm	█ 942	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 197	---	---	---

#### Seaborn Marina Inc.

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T:  
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#### 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 condition of the oil is acceptable for the time in service.

Depot: VP543511  
Unique No: 10615379  
Signed: Doug Bogart  
Report Date: 22 Aug 2023

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## GRAPHS

