

# OIL ANALYSIS REPORT

# VOLVO PENTA

## BLACKSTONE VOLVO PENTA A1054197 - STARBOARD GASOLINE ENGINE

Sample No: VPA049867

Oil Type: NOT GIVEN

### SAMPLE INFORMATION

Sample Number	VPA049867	---	---	---
Sample Date	22 Oct 2023	---	---	---
Machine Hours	17	---	---	---
Oil Hours	60	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

### Outstanding Marine

PO Box 274  
GALENA, MD  
US 21635  
Contact: Ronda Bolinger  
rlwb@verizon.net  
T:  
F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 12.6	---	---	---
Oxidation (PA)	%	29	---	---	---

### CONTAMINATION

Soot %	%	█ 0	---	---	---
Nitration (PA)	%	51	---	---	---
Sulfation (PA)	%	38	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 14	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 2	---	---	---

### 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.

### WEAR METALS

Iron	ppm	█ 16	---	---	---
Copper	ppm	█ 44	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 40	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	6	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	█ 1691	---	---	---
Magnesium	ppm	█ 9	---	---	---
Zinc	ppm	█ 795	---	---	---
Phosphorus	ppm	█ 748	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 2	---	---	---

Depot: VP153685  
Unique No: 10709744  
Signed: Doug Bogart  
Report Date: 23 Oct 2023

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## GRAPHS

