

# OIL ANALYSIS REPORT



## CROSSMAN VOLVO PENTA A1093329 - PORT DIESEL ENGINE

Sample No: VPA058548

Oil Type: DIESEL ENGINE OIL SAE 15W40

### SAMPLE INFORMATION

Sample Number	VPA058548	VPA049851	---	---
Sample Date	06 Jul 2024	09 Oct 2023	---	---
Machine Hours	364	326	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---

### Outstanding Marine

PO Box 274  
GALENA, MD  
US 21635  
Contact: Ronda Bolinger  
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T:  
F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 13.36	█ 13.1	---	---
Base Number (BN)	mg KOH/g	█ 9.8	█ 9.6	---	---
Oxidation (PA)	%	54	57	---	---

### CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.1	█ 0.2	---	---
Nitration (PA)	%	40	47	---	---
Sulfation (PA)	%	50	52	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 3	█ 5	---	---
Sodium	ppm	█ 2	█ <1	---	---
Potassium	ppm	█ 3	█ 3	---	---

### 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	█ 11	█ 16	---	---
Copper	ppm	█ 3	█ 5	---	---
Lead	ppm	█ 1	█ 2	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 2	█ 1	---	---
Chromium	ppm	█ 0	█ <1	---	---
Molybdenum	ppm	█ 58	█ 46	---	---
Nickel	ppm	█ 1	█ 2	---	---
Titanium	ppm	█ 0	█ 0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 0	█ <1	---	---
Vanadium	ppm	0	0	---	---

### ADDITIVES

Calcium	ppm	█ 1134	█ 1182	---	---
Magnesium	ppm	█ 933	█ 712	---	---
Zinc	ppm	█ 1294	█ 1117	---	---
Phosphorus	ppm	█ 1132	█ 946	---	---
Barium	ppm	█ 0	█ 1	---	---
Boron	ppm	█ 12	█ 23	---	---

Depot: VP153685  
Unique No: 11114214  
Signed: Doug Bogart  
Report Date: 08 Jul 2024

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# VOLVO PENTA

## GRAPHS

