

# OIL ANALYSIS REPORT

# VOLVO PENTA

## BELLA LUNA VOLVO PENTA A355544 - PORT DIESEL ENGINE

Sample No: VPA046509

Oil Type: DIESEL ENGINE OIL SAE 15W40

### SAMPLE INFORMATION

Sample Number	VPA046509	---	---	---
Sample Date	28 Mar 2023	---	---	---
Machine Hours	552	---	---	---
Oil Hours	50	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

### Outstanding Marine

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

### OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	---	---	---
Base Number (BN)	mg KOH/g	█ 10.2	---	---	---
Oxidation (PA)	%	54	---	---	---

### CONTAMINATION

Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	43	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 7	---	---	---
Sodium	ppm	█ 24	---	---	---
Potassium	ppm	█ <1	---	---	---

### WEAR METALS

Iron	ppm	█ 27	---	---	---
Copper	ppm	█ 9	---	---	---
Lead	ppm	█ 16	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	▲ 71	---	---	---
Chromium	ppm	█ 4	---	---	---
Molybdenum	ppm	█ 58	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

### ADDITIVES

Calcium	ppm	█ 1013	---	---	---
Magnesium	ppm	█ 930	---	---	---
Zinc	ppm	█ 1190	---	---	---
Phosphorus	ppm	█ 997	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 2	---	---	---

### Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is abnormal. All other 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.

Depot: VP153685  
Unique No: 10403454  
Signed: Don Baldrige  
Report Date: 03 Apr 2023

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## GRAPHS

