

# OIL ANALYSIS REPORT

# VOLVO PENTA

## BELLA LUNA VOLVO PENTA A355544 - PORT DIESEL ENGINE

Sample No: VPA056529

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

### SAMPLE INFORMATION

Sample Number	VPA056529	VPA046509	---	---
Sample Date	31 Oct 2023	28 Mar 2023	---	---
Machine Hours	606	552	---	---
Oil Hours	50	50	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	ATTENTION	---	---

### OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	█ 13.3	---	---
Base Number (BN)	mg KOH/g	█ 10.1	█ 10.2	---	---
Oxidation (PA)	%	54	54	---	---

### CONTAMINATION

Soot %	%	█ 0.3	█ 0.2	---	---
Nitration (PA)	%	43	43	---	---
Sulfation (PA)	%	52	52	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 4	█ 7	---	---
Sodium	ppm	█ 3	█ 24	---	---
Potassium	ppm	█ 0	█ <1	---	---

### WEAR METALS

Iron	ppm	█ 13	█ 27	---	---
Copper	ppm	█ 5	█ 9	---	---
Lead	ppm	█ 12	█ 16	---	---
Tin	ppm	█ 0	█ 1	---	---
Aluminum	ppm	█ 5	▲ 71	---	---
Chromium	ppm	█ <1	█ 4	---	---
Molybdenum	ppm	█ 56	█ 58	---	---
Nickel	ppm	█ 2	█ 1	---	---
Titanium	ppm	█ 0	█ 0	---	---
Silver	ppm	█ <1	█ 0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	<1	<1	---	---

### ADDITIVES

Calcium	ppm	█ 990	█ 1013	---	---
Magnesium	ppm	█ 954	█ 930	---	---
Zinc	ppm	█ 1255	█ 1190	---	---
Phosphorus	ppm	█ 1049	█ 997	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 0	█ 2	---	---

### Outstanding Marine

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### 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.

Depot: VP153685  
Unique No: 10724903  
Signed: Sean Felton  
Report Date: 03 Nov 2023

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## GRAPHS

