

# OIL ANALYSIS REPORT

# VOLVO PENTA

## CLERMONT VOLVO PENTA 7011415024 - PORT DIESEL ENGINE

Sample No: VPA051037

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

### SAMPLE INFORMATION

Sample Number	VPA051037	---	---	---
Sample Date	22 Jan 2024	---	---	---
Machine Hours	1338	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

**FULL KEEL MARINE SERVICES**  
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T: (410)507-3542  
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### OIL CONDITION

Visc @ 100°C	cSt	▲ 12.3	---	---	---
Base Number (BN)	mg KOH/g	■ 9.1	---	---	---
Oxidation (PA)	%	57	---	---	---

### Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.5	---	---	---
Nitration (PA)	%	57	---	---	---
Sulfation (PA)	%	55	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 1.6	---	---	---
Silicon	ppm	■ 4	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 1	---	---	---

### WEAR METALS

Iron	ppm	■ 7	---	---	---
Copper	ppm	■ 44	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ <1	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 56	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	■ 1020	---	---	---
Magnesium	ppm	■ 949	---	---	---
Zinc	ppm	■ 1181	---	---	---
Phosphorus	ppm	■ 1019	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 2	---	---	---

Depot: VP1298996  
Unique No: 10846508  
Signed: Don Baldrige  
Report Date: 26 Jan 2024

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## GRAPHS

