

# OIL ANALYSIS REPORT

# VOLVO PENTA

## FANCY VOLVO PENTA 2013524808 - PORT DIESEL ENGINE

**Sample No:** VPA052425  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

### SAMPLE INFORMATION

Sample Number	VPA052425	---	---	---
Sample Date	13 Mar 2024	---	---	---
Machine Hours	872	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

### OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	---	---	---
Base Number (BN)	mg KOH/g	█ 8.9	---	---	---
Oxidation (PA)	%	56	---	---	---

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.4	---	---	---
Nitration (PA)	%	53	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 5	---	---	---

### WEAR METALS

Iron	ppm	█ 48	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	▲ 46	---	---	---
Chromium	ppm	█ 4	---	---	---
Molybdenum	ppm	█ 56	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	<1	---	---	---

### ADDITIVES

Calcium	ppm	█ 1198	---	---	---
Magnesium	ppm	█ 937	---	---	---
Zinc	ppm	█ 1305	---	---	---
Phosphorus	ppm	█ 1091	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 16	---	---	---

**Marine International Diesels Inc.**  
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### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please note that this is a corrected copy for diagnostic comment updates. 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 suitable for further service.

**Depot:** VP694356  
**Unique No:** 10937045  
**Signed:** Doug Bogart  
**Report Date:** 15 Apr 2024

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## GRAPHS

