

# OIL ANALYSIS REPORT

# VOLVO PENTA

## ABSOLUTE NAVETTA 73 VOLVO PENTA 2013885741 - PORT DIESEL ENGINE

**Sample No:** VPA054458  
**Oil Type:** VOLVO PENTA SAE 15W40

### SAMPLE INFORMATION

Sample Number	VPA054458	---	---	---
Sample Date	12 Mar 2024	---	---	---
Machine Hours	1120	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	ABNORMAL	---	---	---

### OIL CONDITION

Visc @ 100°C	cSt	█ 13.8	---	---	---
Base Number (BN)	mg KOH/g	█ 7.3	---	---	---
Oxidation (PA)	%	70	---	---	---

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 1	---	---	---
Nitration (PA)	%	87	---	---	---
Sulfation (PA)	%	62	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ <1	---	---	---

### WEAR METALS

Iron	ppm	█ 29	---	---	---
Copper	ppm	▲ 345	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 59	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	█ 1143	---	---	---
Magnesium	ppm	█ 920	---	---	---
Zinc	ppm	█ 1194	---	---	---
Phosphorus	ppm	█ 1045	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 5	---	---	---

**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. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). 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:** VP694356  
**Unique No:** 10928253  
**Signed:** Sean Felton  
**Report Date:** 19 Mar 2024

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## GRAPHS

