

# OIL ANALYSIS REPORT

# VOLVO PENTA

**SPENCER LLOYD 01-80184 VOLVO PENTA 70112041048 - DIESEL ENGINE**

**Sample No:** VPA041421

**Oil Type:** VOLVO VDS-4.5 Premium Motor Oil 15W40

## SAMPLE INFORMATION

Sample Number	VPA041421	---	---	---
Sample Date	30 Apr 2024	---	---	---
Machine Hours	100	---	---	---
Oil Hours	100	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

## OIL CONDITION

Visc @ 100°C	cSt	● 11.0	---	---	---
Base Number (BN)	mg KOH/g	■ 6.4	---	---	---
Oxidation (PA)	%	■ 99	---	---	---

## CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.7	---	---	---
Nitration (PA)	%	■ 65	---	---	---
Sulfation (PA)	%	■ 61	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.7	---	---	---
Silicon	ppm	▲ 36	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ 6	---	---	---

## WEAR METALS

Iron	ppm	■ 8	---	---	---
Copper	ppm	■ 61	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	■ 4	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 82	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ <1	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	■ 0	---	---	---

## ADDITIVES

Calcium	ppm	■ 2242	---	---	---
Magnesium	ppm	■ 161	---	---	---
Zinc	ppm	■ 1271	---	---	---
Phosphorus	ppm	■ 1119	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 62	---	---	---

**Fordham Marine Services Inc**  
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US 32211-5226  
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T:  
F:

## Diagnosis

Oil and filter 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. All component wear rates are normal. Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

**Depot:** VP152512  
**Unique No:** 11018392  
**Signed:** Don Baldrige  
**Report Date:** 13 May 2024

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## GRAPHS

