

# OIL ANALYSIS REPORT

# VOLVO PENTA

**DAN FITZPATRICK 7718641 VOLVO PENTA A1200228 - STARBOARD DIESEL ENGINE**

**Sample No:** VPA054426

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

## SAMPLE INFORMATION

Sample Number	VPA054426	---	---	---
Sample Date	26 Jan 2024	---	---	---
Machine Hours	208	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

**Pacific Power Group - VP981534**

7215 S 228th St

Kent, WA

US 98032

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## OIL CONDITION

Visc @ 100°C	cSt	█ 12.6	---	---	---
Base Number (BN)	mg KOH/g	█ 9.6	---	---	---
Oxidation (PA)	%	78	---	---	---

## 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.

## CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	45	---	---	---
Sulfation (PA)	%	61	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 23	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 4	---	---	---

## WEAR METALS

Iron	ppm	█ 12	---	---	---
Copper	ppm	█ 15	---	---	---
Lead	ppm	█ 5	---	---	---
Tin	ppm	█ 3	---	---	---
Aluminum	ppm	█ 20	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 43	---	---	---
Nickel	ppm	█ 4	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	< 1	---	---	---

## ADDITIVES

Calcium	ppm	█ 1638	---	---	---
Magnesium	ppm	501	---	---	---
Zinc	ppm	█ 1149	---	---	---
Phosphorus	ppm	█ 997	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 65	---	---	---

**Depot:** VP99031103

**Unique No:** 10869220

**Signed:** Angela Borella

**Report Date:** 08 Feb 2024

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## GRAPHS

