

# OIL ANALYSIS REPORT

# VOLVO PENTA

**ROBERT TUTLAND AJD/502764 CATERPILLAR CLX00558 - DIESEL ENGINE**

**Sample No:** VPA060021

**Oil Type:** CHEVRON DELO 400 MULTIGRADE 15W40

## SAMPLE INFORMATION

Sample Number	VPA060021	---	---	---
Sample Date	13 Feb 2024	---	---	---
Machine Hours	1139	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

**Endor Marine LLC - Coastal Marine - 152124**  
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## OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	---	---	---
Base Number (BN)	mg KOH/g	█ 8.1	---	---	---
Oxidation (PA)	%	56	---	---	---

## 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 acceptable for the time in service.

## CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	52	---	---	---
Sulfation (PA)	%	55	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 3	---	---	---

## WEAR METALS

Iron	ppm	█ 8	---	---	---
Copper	ppm	█ 4	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 57	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

## ADDITIVES

Calcium	ppm	█ 1371	---	---	---
Magnesium	ppm	█ 646	---	---	---
Zinc	ppm	█ 792	---	---	---
Phosphorus	ppm	█ 741	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 237	---	---	---

**Depot:** VP794951  
**Unique No:** 10883714  
**Signed:** Don Baldrige  
**Report Date:** 19 Feb 2024

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## GRAPHS

