

# OIL ANALYSIS REPORT

# VOLVO PENTA

**BILL YATES 506053 ONAN/CUMMINS K140760711 - GENSET**

**Sample No:** VPA048789

**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

## SAMPLE INFORMATION

Sample Number	VPA048789	VPA031666	---	---
Sample Date	15 Mar 2024	03 Nov 2020	---	---
Machine Hours	250	209	---	---
Oil Hours	50	114	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---

**Jefferson Beach Yacht Sales Inc**

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## OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	█ 13.2	---	---
Base Number (BN)	mg KOH/g	█ 10.1	---	---	---
Oxidation (PA)	%	54	57	---	---

## 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	NEG	---	---
Soot %	%	█ 0.1	█ 0.1	---	---
Nitration (PA)	%	41	43	---	---
Sulfation (PA)	%	50	52	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 8	█ 13	---	---
Sodium	ppm	█ 2	█ 4	---	---
Potassium	ppm	█ 2	█ <1	---	---

## WEAR METALS

Iron	ppm	█ 3	█ 6	---	---
Copper	ppm	█ 3	█ 3	---	---
Lead	ppm	█ <1	█ 0	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 2	█ 0	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 54	█ 60	---	---
Nickel	ppm	█ <1	█ 0	---	---
Titanium	ppm	<1	2	---	---
Silver	ppm	█ 0	0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	<1	0	---	---

## ADDITIVES

Calcium	ppm	█ 1093	█ 1069	---	---
Magnesium	ppm	█ 915	█ 895	---	---
Zinc	ppm	█ 1206	█ 1158	---	---
Phosphorus	ppm	█ 1065	█ 1002	---	---
Barium	ppm	█ 0	█ 2	---	---
Boron	ppm	█ <1	█ 5	---	---

**Depot:** VP297371

**Unique No:** 10937589

**Signed:** Don Baldrige

**Report Date:** 22 Mar 2024

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## GRAPHS

