

# OIL ANALYSIS REPORT

# VOLVO PENTA

**CHRIS OLSON 44430 VOLVO PENTA A769963 - STARBOARD DIESEL ENGINE**

**Sample No:** VPA055131

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

## SAMPLE INFORMATION

Sample Number	VPA055131	VPA031362	---	---
Sample Date	19 Feb 2024	11 May 2021	---	---
Machine Hours	485	215	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---

## OIL CONDITION

Visc @ 100°C	cSt	█ 14.2	█ 13.6	---	---
Base Number (BN)	mg KOH/g	█ 8.3	---	---	---
Oxidation (PA)	%	63	58	---	---

## CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.3	█ 0.1	---	---
Nitration (PA)	%	57	42	---	---
Sulfation (PA)	%	55	55	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 7	█ 3	---	---
Sodium	ppm	█ 4	█ <1	---	---
Potassium	ppm	█ 6	█ 1	---	---

## WEAR METALS

Iron	ppm	█ 21	█ 4	---	---
Copper	ppm	█ 11	█ 2	---	---
Lead	ppm	█ 6	█ 2	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 6	█ <1	---	---
Chromium	ppm	█ 1	█ <1	---	---
Molybdenum	ppm	█ 10	█ 59	---	---
Nickel	ppm	█ 2	█ 1	---	---
Titanium	ppm	█ <1	█ <1	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	<1	<1	---	---

## ADDITIVES

Calcium	ppm	█ 1840	█ 1073	---	---
Magnesium	ppm	█ 149	█ 977	---	---
Zinc	ppm	█ 1108	█ 1258	---	---
Phosphorus	ppm	█ 852	█ 1089	---	---
Barium	ppm	█ 34	█ 0	---	---
Boron	ppm	█ 142	█ 4	---	---

## COASTAL CAROLINA YACHT SALES

145 LOCKWOOD BLVD

CHARLESTON, SC

US 29403

Contact: STEVE VASAS

steve@ccyachtsales.com

T:

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## 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.

**Depot:** VP568144

**Unique No:** 10898151

**Signed:** Don Baldrige

**Report Date:** 27 Feb 2024

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## GRAPHS

