

# OIL ANALYSIS REPORT

# VOLVO PENTA

**JOE RUBIN 43099 VOLVO PENTA 7008512576 - STARBOARD DIESEL ENGINE**

**Sample No:** VPA045949

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

## SAMPLE INFORMATION

Sample Number	VPA045949	VPA032184	---	---
Sample Date	28 Jun 2023	01 Feb 2022	---	---
Machine Hours	331	173	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Changd	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

## OIL CONDITION

Visc @ 100°C	cSt	█ 13.5	█ 13.4	---	---
Base Number (BN)	mg KOH/g	█ 9.9	█ 10.5	---	---
Oxidation (PA)	%	65	72	---	---

## CONTAMINATION

Soot %	%	█ 0.5	█ 0.5	---	---
Nitration (PA)	%	54	62	---	---
Sulfation (PA)	%	57	68	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 11	█ 25	---	---
Sodium	ppm	█ 2	█ 3	---	---
Potassium	ppm	█ 0	█ 1	---	---

## WEAR METALS

Iron	ppm	█ 18	█ 18	---	---
Copper	ppm	█ 38	█ 46	---	---
Lead	ppm	█ 0	█ <1	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 2	█ 4	---	---
Chromium	ppm	█ <1	█ 1	---	---
Molybdenum	ppm	█ 60	█ 113	---	---
Nickel	ppm	█ 1	█ 1	---	---
Titanium	ppm	█ <1	█ <1	---	---
Silver	ppm	█ 0	█ 1	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	█ 0	█ 0	---	---

## ADDITIVES

Calcium	ppm	█ 1023	█ 1580	---	---
Magnesium	ppm	█ 915	█ 788	---	---
Zinc	ppm	█ 1148	█ 976	---	---
Phosphorus	ppm	█ 934	█ 866	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 14	█ 89	---	---

**COASTAL CAROLINA YACHT SALES**  
145 LOCKWOOD BLVD  
CHARLESTON, SC  
US 29403  
Contact: STEVE VASAS  
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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 suitable for further service.

**Depot:** VP568144  
**Unique No:** 10549120  
**Signed:** Don Baldrige  
**Report Date:** 11 Jul 2023

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## GRAPHS

