

# OIL ANALYSIS REPORT

# VOLVO PENTA

**STEVE MARTEN 505526 VOLVO PENTA 1012495449 - STARBOARD DIESEL ENGINE**

**Sample No:** VPA048811

**Oil Type:** VOLVO PENTA SAE 15W40

## SAMPLE INFORMATION

Sample Number	<b>VPA048811</b>	VPA022999	---	---
Sample Date	<b>14 Sep 2023</b>	30 Sep 2019	---	---
Machine Hours	<b>533</b>	475	---	---
Oil Hours	<b>23</b>	70	---	---
Oil Changed	<b>Changed</b>	Changed	---	---
Sample Status	<b>NORMAL</b>	NORMAL	---	---

**Jefferson Beach Yacht Sales Inc**

24400 Jefferson Ave.

SAINT CLAIR SHORES, MI

US 48080

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.3</b>	14.2	---	---
Base Number (BN)	mg KOH/g	<b>10.6</b>	---	---	---
Oxidation (PA)	%	<b>60</b>	55	---	---

## 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

Soot %	%	<b>0</b>	1.8	---	---
Nitration (PA)	%	<b>52</b>	63	---	---
Sulfation (PA)	%	<b>60</b>	59	---	---
Glycol	%	<b>NEG</b>	NEG	---	---
Fuel	%	<b>&lt;1.0</b>	<1.0	---	---
Silicon	ppm	<b>3</b>	2	---	---
Sodium	ppm	<b>7</b>	8	---	---
Potassium	ppm	<b>&lt;1</b>	<1	---	---

## WEAR METALS

Iron	ppm	<b>2</b>	14	---	---
Copper	ppm	<b>2</b>	4	---	---
Lead	ppm	<b>&lt;1</b>	0	---	---
Tin	ppm	<b>&lt;1</b>	<1	---	---
Aluminum	ppm	<b>2</b>	1	---	---
Chromium	ppm	<b>&lt;1</b>	<1	---	---
Molybdenum	ppm	<b>65</b>	59	---	---
Nickel	ppm	<b>0</b>	<1	---	---
Titanium	ppm	<b>0</b>	0	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>&lt;1</b>	<1	---	---
Vanadium	ppm	<b>0</b>	0	---	---

## ADDITIVES

Calcium	ppm	<b>1088</b>	1020	---	---
Magnesium	ppm	<b>976</b>	934	---	---
Zinc	ppm	<b>1297</b>	1070	---	---
Phosphorus	ppm	<b>1088</b>	960	---	---
Barium	ppm	<b>0</b>	0	---	---
Boron	ppm	<b>0</b>	4	---	---

**Depot:** VP297371

**Unique No:** 10656951

**Signed:** Jonathan Hester

**Report Date:** 21 Sep 2023

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## GRAPHS

