

# OIL ANALYSIS REPORT

# VOLVO PENTA

**PO 110902 110902 VOLVO PENTA A1068729 - PORT DIESEL ENGINE**

**Sample No:** VPA037170

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

## SAMPLE INFORMATION

Sample Number	<b>VPA037170</b>	VPA037968	VPA030733	---
Sample Date	<b>23 Oct 2023</b>	03 Nov 2021	16 Dec 2019	---
Machine Hours	<b>192</b>	138	41	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

**Suncoast Diesel Marine Inc.**

610 Mount Vernan St

OLDSMAR, FL

US 34677

Contact: MARK WARREN

oldsmar@suncoastdmi.com

T: (813)475-5942

F: (813)475-5943

## OIL CONDITION

Visc @ 100°C	cSt	<b>13.3</b>	13.3	13.5	---
Base Number (BN)	mg KOH/g	<b>9.4</b>	---	---	---
Oxidation (PA)	%	<b>54</b>	57	49	---

## CONTAMINATION

Soot %	%	<b>0.1</b>	0.3	0.1	---
Nitration (PA)	%	<b>43</b>	52	44	---
Sulfation (PA)	%	<b>50</b>	53	46	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>5</b>	10	17	---
Sodium	ppm	<b>&lt;1</b>	2	3	---
Potassium	ppm	<b>1</b>	4	7	---

## WEAR METALS

Iron	ppm	<b>7</b>	16	8	---
Copper	ppm	<b>3</b>	6	8	---
Lead	ppm	<b>&lt;1</b>	2	1	---
Tin	ppm	<b>&lt;1</b>	0	0	---
Aluminum	ppm	<b>1</b>	2	2	---
Chromium	ppm	<b>&lt;1</b>	1	<1	---
Molybdenum	ppm	<b>57</b>	62	42	---
Nickel	ppm	<b>&lt;1</b>	1	1	---
Titanium	ppm	<b>0</b>	<1	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	0	0	---

## ADDITIVES

Calcium	ppm	<b>1001</b>	1426	2153	---
Magnesium	ppm	<b>934</b>	1121	532	---
Zinc	ppm	<b>1267</b>	1278	1178	---
Phosphorus	ppm	<b>1036</b>	1132	1045	---
Barium	ppm	<b>0</b>	0	<1	---
Boron	ppm	<b>3</b>	9	46	---

## 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:** VP945077

**Unique No:** 10714705

**Signed:** Don Baldrige

**Report Date:** 31 Oct 2023

# OIL ANALYSIS REPORT



## GRAPHS

