

# OIL ANALYSIS REPORT

# VOLVO PENTA

**JOSE SOLER 532705 VOLVO PENTA A1165142 - STARBOARD DIESEL ENGINE**

**Sample No:** VPA056974

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

## SAMPLE INFORMATION

Sample Number	<b>VPA056974</b>	VPA046653	---	---
Sample Date	<b>03 Jul 2023</b>	13 Sep 2022	---	---
Machine Hours	<b>158</b>	39	---	---
Oil Hours	<b>158</b>	39	---	---
Oil Changed	<b>Changed</b>	Not Changd	---	---
Sample Status	<b>NORMAL</b>	NORMAL	---	---

**Jas Marine Service Inc**  
3131 SW 2Nd Ave.  
FORT LAUDERDALE, FL  
US 33315  
Contact: JASON TOLEDO  
jason@jasmarine.com  
T: (954)462-1112  
F:

## OIL CONDITION

Visc @ 100°C	cSt	<b>13.1</b>	13.6	---	---
Base Number (BN)	mg KOH/g	<b>8.6</b>	9.5	---	---
Oxidation (PA)	%	<b>45</b>	39	---	---

## CONTAMINATION

Soot %	%	<b>0.6</b>	0.1	---	---
Nitration (PA)	%	<b>48</b>	38	---	---
Sulfation (PA)	%	<b>50</b>	47	---	---
Glycol	%	<b>NEG</b>	NEG	---	---
Fuel	%	<b>&lt;1.0</b>	<1.0	---	---
Silicon	ppm	<b>23</b>	18	---	---
Sodium	ppm	<b>2</b>	<1	---	---
Potassium	ppm	<b>5</b>	<1	---	---

## WEAR METALS

Iron	ppm	<b>59</b>	20	---	---
Copper	ppm	<b>23</b>	15	---	---
Lead	ppm	<b>4</b>	3	---	---
Tin	ppm	<b>5</b>	2	---	---
Aluminum	ppm	<b>23</b>	7	---	---
Chromium	ppm	<b>5</b>	2	---	---
Molybdenum	ppm	<b>11</b>	11	---	---
Nickel	ppm	<b>2</b>	1	---	---
Titanium	ppm	<b>&lt;1</b>	<1	---	---
Silver	ppm	<b>&lt;1</b>	<1	---	---
Manganese	ppm	<b>2</b>	1	---	---
Vanadium	ppm	<b>&lt;1</b>	0	---	---

## ADDITIVES

Calcium	ppm	<b>2813</b>	2563	---	---
Magnesium	ppm	<b>72</b>	63	---	---
Zinc	ppm	<b>1131</b>	1010	---	---
Phosphorus	ppm	<b>941</b>	851	---	---
Barium	ppm	<b>0</b>	1	---	---
Boron	ppm	<b>73</b>	88	---	---

## Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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:** VP426065  
**Unique No:** 10550004  
**Signed:** Sean Felton  
**Report Date:** 12 Jul 2023

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## GRAPHS

