

# OIL ANALYSIS REPORT

# VOLVO PENTA

**LEN THOMSON 19228 VOLVO PENTA 2013765149 - STARBOARD DIESEL ENGINE**

**Sample No:** VPA041248

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

## SAMPLE INFORMATION

Sample Number	<b>VPA041248</b>	VPA039442	VPA030950	---
Sample Date	<b>25 Aug 2023</b>	31 Aug 2022	13 Nov 2020	---
Machine Hours	<b>0</b>	418	165	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>N/A</b>	N/A	N/A	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.3</b>	14.2	12.8	---
Oxidation (PA)	%	<b>62</b>	106	41	---

## CONTAMINATION

Soot %	%	<b>0.1</b>	0	0.2	---
Nitration (PA)	%	<b>48</b>	51	46	---
Sulfation (PA)	%	<b>60</b>	81	45	---
Glycol	%	<b>NEG</b>	NEG	0.0	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>6</b>	9	28	---
Sodium	ppm	<b>1</b>	2	2	---
Potassium	ppm	<b>&lt;1</b>	2	20	---

## 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 condition of the oil is acceptable for the time in service.

## WEAR METALS

Iron	ppm	<b>4</b>	5	16	---
Copper	ppm	<b>1</b>	3	31	---
Lead	ppm	<b>0</b>	<1	2	---
Tin	ppm	<b>&lt;1</b>	<1	2	---
Aluminum	ppm	<b>&lt;1</b>	3	7	---
Chromium	ppm	<b>&lt;1</b>	0	<1	---
Molybdenum	ppm	<b>65</b>	100	49	---
Nickel	ppm	<b>0</b>	0	<1	---
Titanium	ppm	<b>0</b>	<1	0	---
Silver	ppm	<b>0</b>	0	<1	---
Manganese	ppm	<b>&lt;1</b>	<1	2	---
Vanadium	ppm	<b>0</b>	0	0	---

## ADDITIVES

Calcium	ppm	<b>1108</b>	1393	1067	---
Magnesium	ppm	<b>944</b>	532	1010	---
Zinc	ppm	<b>1174</b>	972	1405	---
Phosphorus	ppm	<b>1078</b>	907	1155	---
Barium	ppm	<b>0</b>	0	<1	---
Boron	ppm	<b>36</b>	308	3	---

**Depot:** VP154139  
**Unique No:** 5632612  
**Signed:** Kevin Marson  
**Report Date:** 01 Sep 2023

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## GRAPHS

