

# OIL ANALYSIS REPORT

# VOLVO PENTA

**TOM MADDEN 505265 VOLVO PENTA 1101059520 - STARBOARD DIESEL ENGINE**

**Sample No:** VPA048592

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

## SAMPLE INFORMATION

Sample Number	<b>VPA048592</b>	VPA042764	VPA028523	---
Sample Date	<b>08 Sep 2023</b>	13 Jan 2023	25 May 2021	---
Machine Hours	<b>1015</b>	987	900	---
Oil Hours	<b>0</b>	921	0	---
Oil Changed	<b>Changed</b>	Changed	Not Changd	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.3</b>	13.2	13.4	---
Base Number (BN)	mg KOH/g	<b>9.9</b>	9.6	---	---
Oxidation (PA)	%	<b>54</b>	58	57	---

## CONTAMINATION

Soot %	%	<b>0.4</b>	0.6	0.2	---
Nitration (PA)	%	<b>52</b>	58	58	---
Sulfation (PA)	%	<b>51</b>	55	51	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>3</b>	3	<1	---
Sodium	ppm	<b>&lt;1</b>	1	3	---
Potassium	ppm	<b>1</b>	<1	<1	---

## WEAR METALS

Iron	ppm	<b>4</b>	7	5	---
Copper	ppm	<b>&lt;1</b>	1	1	---
Lead	ppm	<b>&lt;1</b>	<1	<1	---
Tin	ppm	<b>&lt;1</b>	<1	<1	---
Aluminum	ppm	<b>&lt;1</b>	<1	0	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>61</b>	62	44	---
Nickel	ppm	<b>0</b>	<1	<1	---
Titanium	ppm	<b>&lt;1</b>	2	13	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>0</b>	<1	<1	---
Vanadium	ppm	<b>&lt;1</b>	0	<1	---

## ADDITIVES

Calcium	ppm	<b>1170</b>	1138	1164	---
Magnesium	ppm	<b>1034</b>	973	736	---
Zinc	ppm	<b>1330</b>	1271	1124	---
Phosphorus	ppm	<b>1071</b>	1050	964	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>4</b>	3	18	---

## 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:** VP297371

**Unique No:** 10645889

**Signed:** Angela Borella

**Report Date:** 15 Sep 2023

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## GRAPHS

