

# OIL ANALYSIS REPORT



## WILLIAM ROLAND 505978 VOLVO PENTA A1088295 - STARBOARD DIESEL ENGINE

**Sample No:** VPA053677  
**Oil Type:** VOLVO PENTA SAE 15W40

### SAMPLE INFORMATION

Sample Number	<b>VPA053677</b>	VPA042452	VPA037089	---
Sample Date	<b>04 May 2024</b>	15 Feb 2023	24 Aug 2021	---
Machine Hours	<b>0</b>	264	215	---
Oil Hours	<b>0</b>	54	113	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.0</b>	12.8	13.0	---
Base Number (BN)	mg KOH/g	<b>9.8</b>	10.9	---	---
Oxidation (PA)	%	<b>53</b>	54	59	---

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.1</b>	0.2	0.2	---
Nitration (PA)	%	<b>41</b>	45	47	---
Sulfation (PA)	%	<b>49</b>	51	55	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>5</b>	5	5	---
Sodium	ppm	<b>11</b>	1	1	---
Potassium	ppm	<b>1</b>	11	<1	---

### 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.

### WEAR METALS

Iron	ppm	<b>39</b>	7	6	---
Copper	ppm	<b>2</b>	3	5	---
Lead	ppm	<b>&lt;1</b>	2	3	---
Tin	ppm	<b>0</b>	<1	<1	---
Aluminum	ppm	<b>5</b>	<1	1	---
Chromium	ppm	<b>1</b>	<1	<1	---
Molybdenum	ppm	<b>62</b>	61	58	---
Nickel	ppm	<b>0</b>	<1	<1	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	0	1	---
Manganese	ppm	<b>&lt;1</b>	1	<1	---
Vanadium	ppm	<b>0</b>	0	0	---

### ADDITIVES

Calcium	ppm	<b>1149</b>	1141	1058	---
Magnesium	ppm	<b>1032</b>	1029	936	---
Zinc	ppm	<b>1319</b>	1350	1254	---
Phosphorus	ppm	<b>1112</b>	1038	1039	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>&lt;1</b>	4	11	---

**Depot:** VP297371  
**Unique No:** 11021122  
**Signed:** Don Baldrige  
**Report Date:** 13 May 2024

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**VOLVO  
PENTA**

## GRAPHS

