

# OIL ANALYSIS REPORT



## KY DEWALT 1610066 VOLVO PENTA 2006020128 - PORT DIESEL ENGINE

**Sample No:** VPA054033  
**Oil Type:** VOLVO PENTA SAE 15W40

### SAMPLE INFORMATION

Sample Number	<b>VPA054033</b>	VPA025025	VPA018676	---
Sample Date	<b>19 Apr 2024</b>	10 Jun 2021	27 Mar 2018	---
Machine Hours	<b>1338</b>	1319	611	---
Oil Hours	<b>19</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Not Changd	---
Sample Status	<b>NORMAL</b>	ATTENTION	NORMAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.7</b>	16.2	14.73	---
Base Number (BN)	mg KOH/g	<b>9.2</b>	---	---	---
Oxidation (PA)	%	<b>74</b>	137	68	---

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.3</b>	0.7	0.3	---
Nitration (PA)	%	<b>80</b>	129	67	---
Sulfation (PA)	%	<b>59</b>	88	58	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>7</b>	9	4	---
Sodium	ppm	<b>2</b>	9	6	---
Potassium	ppm	<b>2</b>	3	2	---

### 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>30</b>	78	21	---
Copper	ppm	<b>11</b>	40	9	---
Lead	ppm	<b>4</b>	13	2	---
Tin	ppm	<b>2</b>	5	1	---
Aluminum	ppm	<b>5</b>	16	6	---
Chromium	ppm	<b>&lt;1</b>	3	<1	---
Molybdenum	ppm	<b>62</b>	69	80	---
Nickel	ppm	<b>2</b>	8	2	---
Titanium	ppm	<b>&lt;1</b>	2	2	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	1	<1	---
Vanadium	ppm	<b>0</b>	<1	0	---

### ADDITIVES

Calcium	ppm	<b>1182</b>	1478	1448	---
Magnesium	ppm	<b>955</b>	510	442	---
Zinc	ppm	<b>1320</b>	1109	1053	---
Phosphorus	ppm	<b>1078</b>	928	956	---
Barium	ppm	<b>0</b>	0	<1	---
Boron	ppm	<b>13</b>	149	351	---

**Depot:** VP99031103  
**Unique No:** 11002974  
**Signed:** Don Baldrige  
**Report Date:** 30 Apr 2024

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**VOLVO  
PENTA**

## GRAPHS

