

# OIL ANALYSIS REPORT



## KY DEWALT 1610066 VOLVO PENTA 2006020129 - STARBOARD DIESEL ENGINE

**Sample No:** VPA054094  
**Oil Type:** VOLVO PENTA SAE 15W40

### SAMPLE INFORMATION

Sample Number	<b>VPA054094</b>	VPA026283	VPA018675	---
Sample Date	<b>19 Apr 2024</b>	10 Jun 2021	27 Mar 2018	---
Machine Hours	<b>1338</b>	1331	611	---
Oil Hours	<b>19</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	N/A	---
Sample Status	<b>NORMAL</b>	ATTENTION	NORMAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.2</b>	16.3	14.84	---
Base Number (BN)	mg KOH/g	<b>9.0</b>	---	---	---
Oxidation (PA)	%	<b>75</b>	133	64	---

### 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.

### CONTAMINATION

Water	%	<b>NEG</b>	0.105	NEG	---
Soot %	%	<b>0.2</b>	0.7	0.2	---
Nitration (PA)	%	<b>80</b>	128	58	---
Sulfation (PA)	%	<b>60</b>	86	53	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>7</b>	9	5	---
Sodium	ppm	<b>1</b>	8	2	---
Potassium	ppm	<b>&lt;1</b>	3	2	---

### WEAR METALS

Iron	ppm	<b>24</b>	71	16	---
Copper	ppm	<b>13</b>	43	11	---
Lead	ppm	<b>3</b>	12	2	---
Tin	ppm	<b>1</b>	5	1	---
Aluminum	ppm	<b>2</b>	11	3	---
Chromium	ppm	<b>&lt;1</b>	3	<1	---
Molybdenum	ppm	<b>61</b>	74	80	---
Nickel	ppm	<b>3</b>	9	3	---
Titanium	ppm	<b>&lt;1</b>	3	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>1177</b>	1521	1439	---
Magnesium	ppm	<b>905</b>	503	440	---
Zinc	ppm	<b>1280</b>	1168	1048	---
Phosphorus	ppm	<b>1089</b>	975	962	---
Barium	ppm	<b>0</b>	0	<1	---
Boron	ppm	<b>18</b>	173	347	---

**Depot:** VP99031103  
**Unique No:** 11002973  
**Signed:** Don Baldrige  
**Report Date:** 30 Apr 2024

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## GRAPHS

