

# OIL ANALYSIS REPORT

# VOLVO PENTA

## JACOBS BUD VOLVO 2006005346 - PORT DIESEL ENGINE

**Sample No:** VPA036876  
**Oil Type:** VOLVO PENTA SAE 15W40

### SAMPLE INFORMATION

Sample Number	<b>VPA036876</b>	VPA041066	VPA032969	VPA024130
Sample Date	<b>28 Oct 2023</b>	02 Oct 2022	11 Nov 2020	25 Oct 2018
Machine Hours	<b>762</b>	722	618	510
Oil Hours	<b>0</b>	0	107	31
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	ABNORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>14.3</b>	12.4	13.9	15.69
Base Number (BN)	mg KOH/g	<b>8.6</b>	9.6	---	---
Oxidation (PA)	%	<b>74</b>	94	83	76

### CONTAMINATION

Soot %	%	<b>0.1</b>	0.2	0.1	0.1
Nitration (PA)	%	<b>65</b>	93	90	78
Sulfation (PA)	%	<b>58</b>	69	63	56
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	3.7	<1.0	<1.0
Silicon	ppm	<b>4</b>	4	3	2
Sodium	ppm	<b>5</b>	1	4	3
Potassium	ppm	<b>9</b>	<1	2	4

### WEAR METALS

Iron	ppm	<b>7</b>	8	9	12
Copper	ppm	<b>6</b>	16	20	12
Lead	ppm	<b>1</b>	6	7	7
Tin	ppm	<b>&lt;1</b>	1	1	0
Aluminum	ppm	<b>4</b>	4	0	7
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>7</b>	56	54	3
Nickel	ppm	<b>2</b>	4	4	2
Titanium	ppm	<b>&lt;1</b>	0	0	<1
Silver	ppm	<b>1</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>2304</b>	1012	1158	2525
Magnesium	ppm	<b>118</b>	904	810	62
Zinc	ppm	<b>1373</b>	1190	1124	1130
Phosphorus	ppm	<b>1211</b>	994	1018	1019
Barium	ppm	<b>&lt;1</b>	0	0	0
Boron	ppm	<b>198</b>	<1	5	23

### 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:** VP153811  
**Unique No:** 10723683  
**Signed:** Don Baldrige  
**Report Date:** 02 Nov 2023

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## GRAPHS

