

# OIL ANALYSIS REPORT

# VOLVO PENTA

**DAN WESTER 505741 VOLVO PENTA 2006011374 - PORT DIESEL ENGINE**

**Sample No:** VPA059418

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

## SAMPLE INFORMATION

Sample Number	<b>VPA059418</b>	VPA042744	VPA037105	---
Sample Date	<b>25 Oct 2023</b>	06 Dec 2022	22 Oct 2021	---
Machine Hours	<b>484</b>	467	436	---
Oil Hours	<b>18</b>	0	40	---
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>14.2</b>	13.7	13.4	---
Base Number (BN)	mg KOH/g	<b>9.5</b>	10.9	---	---
Oxidation (PA)	%	<b>55</b>	64	60	---

## CONTAMINATION

Soot %	%	<b>0.1</b>	0.1	0.1	---
Nitration (PA)	%	<b>44</b>	57	52	---
Sulfation (PA)	%	<b>48</b>	58	53	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>3</b>	5	2	---
Sodium	ppm	<b>&lt;1</b>	0	4	---
Potassium	ppm	<b>0</b>	2	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 suitable for further service.

## WEAR METALS

Iron	ppm	<b>2</b>	5	6	---
Copper	ppm	<b>&lt;1</b>	2	2	---
Lead	ppm	<b>0</b>	<1	2	---
Tin	ppm	<b>&lt;1</b>	<1	<1	---
Aluminum	ppm	<b>&lt;1</b>	<1	<1	---
Chromium	ppm	<b>0</b>	0	<1	---
Molybdenum	ppm	<b>56</b>	60	61	---
Nickel	ppm	<b>0</b>	0	<1	---
Titanium	ppm	<b>0</b>	0	<1	---
Silver	ppm	<b>0</b>	<1	<1	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	0	<1	---

## ADDITIVES

Calcium	ppm	<b>889</b>	1100	1134	---
Magnesium	ppm	<b>841</b>	862	1040	---
Zinc	ppm	<b>1109</b>	1183	1257	---
Phosphorus	ppm	<b>1018</b>	999	1156	---
Barium	ppm	<b>3</b>	0	0	---
Boron	ppm	<b>11</b>	4	6	---

**Depot:** VP297371  
**Unique No:** 10715320  
**Signed:** Don Baldrige  
**Report Date:** 31 Oct 2023

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PENTA**

## GRAPHS

