

# OIL ANALYSIS REPORT

# VOLVO PENTA

## MAX BACHARA VOLVO PENTA 7011399059 - PORT DIESEL ENGINE

**Sample No:** VPA059816  
**Oil Type:** VALVOLINE 15W40

### SAMPLE INFORMATION

Sample Number	VPA059816	VPA044513	---	---
Sample Date	29 Oct 2023	07 Nov 2022	---	---
Machine Hours	0	0	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

### OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	█ 13.4	---	---
Base Number (BN)	mg KOH/g	█ 8.7	█ 10.5	---	---
Oxidation (PA)	%	65	74	---	---

### CONTAMINATION

Soot %	%	█ 0.2	█ 0.2	---	---
Nitration (PA)	%	59	68	---	---
Sulfation (PA)	%	53	60	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 4	█ 4	---	---
Sodium	ppm	█ 2	█ 2	---	---
Potassium	ppm	█ 0	█ <1	---	---

### WEAR METALS

Iron	ppm	█ <1	█ 3	---	---
Copper	ppm	█ 11	█ 8	---	---
Lead	ppm	█ 0	█ <1	---	---
Tin	ppm	█ 0	█ <1	---	---
Aluminum	ppm	█ <1	█ <1	---	---
Chromium	ppm	█ 0	█ <1	---	---
Molybdenum	ppm	█ 44	█ 44	---	---
Nickel	ppm	█ 0	█ <1	---	---
Titanium	ppm	█ 0	█ 0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	0	0	---	---

### ADDITIVES

Calcium	ppm	1027	█ 1162	---	---
Magnesium	ppm	█ 716	█ 756	---	---
Zinc	ppm	█ 807	█ 853	---	---
Phosphorus	ppm	█ 740	█ 687	---	---
Barium	ppm	█ 3	█ 0	---	---
Boron	ppm	█ 43	█ 44	---	---

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### 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.

**Depot:** VP1174336  
**Unique No:** 10715301  
**Signed:** Don Baldrige  
**Report Date:** 31 Oct 2023

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## GRAPHS

