

# OIL ANALYSIS REPORT

# VOLVO PENTA

**MIKE GORMAN 23-2775 ONAN C180320064 - CENTER GENSET**

**Sample No:** VPA058503

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

## SAMPLE INFORMATION

Sample Number	VPA058503	VPA020930	---	---
Sample Date	04 Dec 2023	19 Nov 2019	---	---
Machine Hours	1249	425	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

## OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	10.7	---	---
Base Number (BN)	mg KOH/g	█ 8.5	---	---	---
Oxidation (PA)	%	61	74	---	---

## CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.1	█ 0.3	---	---
Nitration (PA)	%	49	90	---	---
Sulfation (PA)	%	53	55	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 9	█ 21	---	---
Sodium	ppm	█ 4	█ 2	---	---
Potassium	ppm	█ 0	█ <1	---	---

## WEAR METALS

Iron	ppm	█ 21	█ 11	---	---
Copper	ppm	█ 1	█ 6	---	---
Lead	ppm	█ 0	█ 1	---	---
Tin	ppm	█ 0	█ <1	---	---
Aluminum	ppm	█ 5	█ 2	---	---
Chromium	ppm	█ 1	█ <1	---	---
Molybdenum	ppm	123	█ 13	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	█ 0	0	---	---
Manganese	ppm	█ <1	█ 2	---	---
Vanadium	ppm	0	0	---	---

## ADDITIVES

Calcium	ppm	█ 1388	█ 448	---	---
Magnesium	ppm	█ 697	█ 1106	---	---
Zinc	ppm	█ 870	█ 1135	---	---
Phosphorus	ppm	█ 702	█ 1012	---	---
Barium	ppm	█ 0	█ 2	---	---
Boron	ppm	█ 22	█ 12	---	---

### Outstanding Marine

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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:** VP153685  
**Unique No:** 10777209  
**Signed:** Angela Borella  
**Report Date:** 08 Dec 2023

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## GRAPHS

