

# OIL ANALYSIS REPORT

# VOLVO PENTA

**FRED MARINO 546577 VOLVO PENTA A488686 - GASOLINE ENGINE**

**Sample No:** VPA057590

**Oil Type:** VOLVO PENTA 10W40 FULL SYN

## SAMPLE INFORMATION

Sample Number	VPA057590	---	---	---
Sample Date	14 Oct 2023	---	---	---
Machine Hours	365	---	---	---
Oil Hours	20	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

**Boats By George Inc**  
18 State Route 149  
LAKE GEORGE, NY  
US 12845-3501  
Contact: DON MANAHER  
don@boatsbygeorge.com  
T:  
F:

## OIL CONDITION

Visc @ 100°C	cSt	█ 16.4	---	---	---
Base Number (BN)	mg KOH/g	█ 6.9	---	---	---
Oxidation (PA)	%	8	---	---	---

## CONTAMINATION

Soot %	%	█ 0	---	---	---
Nitration (PA)	%	6	---	---	---
Sulfation (PA)	%	9	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 20	---	---	---
Sodium	ppm	█ <1	---	---	---
Potassium	ppm	█ 2	---	---	---

## Diagnosis

Oil and filter change at the time of sampling has been noted. 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.

## WEAR METALS

Iron	ppm	█ 6	---	---	---
Copper	ppm	█ 38	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	34	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	4	---	---	---
Vanadium	ppm	0	---	---	---

## ADDITIVES

Calcium	ppm	1605	---	---	---
Magnesium	ppm	23	---	---	---
Zinc	ppm	731	---	---	---
Phosphorus	ppm	644	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	2	---	---	---

**Depot:** VP151865  
**Unique No:** 10714094  
**Signed:** Angela Borella  
**Report Date:** 31 Oct 2023

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## GRAPHS

