

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

**MCMICHAEL 590-112 JAY CUMMINS 22529476 - PORT DIESEL ENGINE**

**Sample No:** VPA057007

**Oil Type:** DIESEL ENGINE OIL SAE 40

## SAMPLE INFORMATION

Sample Number	VPA057007	---	---	---
Sample Date	07 Dec 2023	---	---	---
Machine Hours	71	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

### Outstanding Marine

PO Box 274  
GALENA, MD  
US 21635  
Contact: Ronda Bolinger  
rlwb@verizon.net

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F:

## OIL CONDITION

Visc @ 100°C	cSt	█ 13.6	---	---	---
Base Number (BN)	mg KOH/g	█ 10.2	---	---	---
Oxidation (PA)	%	51	---	---	---

## Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. Metal levels are typical for a new component breaking in. 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.

## CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.7	---	---	---
Nitration (PA)	%	49	---	---	---
Sulfation (PA)	%	54	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 19	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 0	---	---	---

## WEAR METALS

Iron	ppm	█ 28	---	---	---
Copper	ppm	█ 60	---	---	---
Lead	ppm	█ 3	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 16	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 49	---	---	---
Nickel	ppm	█ 3	---	---	---
Titanium	ppm	█ 4	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ 4	---	---	---
Vanadium	ppm	<1	---	---	---

## ADDITIVES

Calcium	ppm	█ 2799	---	---	---
Magnesium	ppm	█ 220	---	---	---
Zinc	ppm	█ 1144	---	---	---
Phosphorus	ppm	█ 982	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 286	---	---	---

**Depot:** VP153685  
**Unique No:** 10816305  
**Signed:** Sean Felton  
**Report Date:** 04 Jan 2024

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## GRAPHS

