

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

**BRAD HYNES MATTHEW DOW VOLVO PENTA 2006022192 - CENTER DIESEL ENGINE**

**Sample No:** VPA060595

**Oil Type:** VALVOLINE PREMIUM BLUE

## SAMPLE INFORMATION

Sample Number	<b>VPA060595</b>	VPA042839	---	---
Sample Date	<b>19 Oct 2023</b>	20 Oct 2022	---	---
Machine Hours	<b>1706</b>	1642	---	---
Oil Hours	<b>64</b>	75	---	---
Oil Changed	<b>Changed</b>	Changed	---	---
Sample Status	<b>NORMAL</b>	NORMAL	---	---

**Mobile Marine Services Inc**  
01032 Advance Rd South  
EAST JORDAN, MI  
US 49727  
Contact: Duane Kujat  
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T: Phone  
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## OIL CONDITION

Visc @ 100°C	cSt	<b>14.4</b>	13.2	---	---
Base Number (BN)	mg KOH/g	<b>8.9</b>	11.4	---	---
Oxidation (PA)	%	<b>78</b>	92	---	---

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	---	---
Soot %	%	<b>0.2</b>	0.3	---	---
Nitration (PA)	%	<b>75</b>	74	---	---
Sulfation (PA)	%	<b>60</b>	70	---	---
Glycol	%	<b>NEG</b>	NEG	---	---
Fuel	%	<b>&lt;1.0</b>	<1.0	---	---
Silicon	ppm	<b>4</b>	5	---	---
Sodium	ppm	<b>2</b>	3	---	---
Potassium	ppm	<b>0</b>	0	---	---

## 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 acceptable for the time in service.

## WEAR METALS

Iron	ppm	<b>6</b>	14	---	---
Copper	ppm	<b>5</b>	7	---	---
Lead	ppm	<b>&lt;1</b>	2	---	---
Tin	ppm	<b>&lt;1</b>	<1	---	---
Aluminum	ppm	<b>2</b>	2	---	---
Chromium	ppm	<b>0</b>	<1	---	---
Molybdenum	ppm	<b>43</b>	40	---	---
Nickel	ppm	<b>&lt;1</b>	<1	---	---
Titanium	ppm	<b>0</b>	0	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>&lt;1</b>	<1	---	---
Vanadium	ppm	<b>0</b>	0	---	---

## ADDITIVES

Calcium	ppm	<b>1144</b>	1638	---	---
Magnesium	ppm	<b>798</b>	541	---	---
Zinc	ppm	<b>880</b>	888	---	---
Phosphorus	ppm	<b>679</b>	742	---	---
Barium	ppm	<b>0</b>	0	---	---
Boron	ppm	<b>36</b>	52	---	---

**Depot:** VP443016  
**Unique No:** 10742657  
**Signed:** Sean Felton  
**Report Date:** 16 Nov 2023

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## GRAPHS

