

# OIL ANALYSIS REPORT



## PINO PINO - CENTER DIESEL ENGINE

**Sample No:** VPA049921  
**Oil Type:** NOT GIVEN

### SAMPLE INFORMATION

Sample Number	VPA049921	---	---	---
Sample Date	15 Aug 2023	---	---	---
Machine Hours	200	---	---	---
Oil Hours	35	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	SEVERE	---	---	---

**Full Performance Marine Inc**  
 Intersection of Rt. 26&994  
 JAMES CREEK, PA  
 US 16657  
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 T:  
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### OIL CONDITION

Visc @ 100°C	cSt	▲ 7.8	---	---	---
Base Number (BN)	mg KOH/g	■ 8.4	---	---	---
Oxidation (PA)	%	41	---	---	---

### CONTAMINATION

Water	%	▲ 0.644	---	---	---
Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	69	---	---	---
Sulfation (PA)	%	44	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	◆ 8.5	---	---	---
Silicon	ppm	■ 13	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ 4	---	---	---

### Diagnosis

We advise that you check the fuel injection system. We advise that you check for the source of water entry. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. There is a moderate concentration of water present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil.

### WEAR METALS

Iron	ppm	■ 11	---	---	---
Copper	ppm	■ 17	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 5	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 90	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ <1	---	---	---
Manganese	ppm	71	---	---	---
Vanadium	ppm	<1	---	---	---

### ADDITIVES

Calcium	ppm	■ 1081	---	---	---
Magnesium	ppm	■ 416	---	---	---
Zinc	ppm	■ 725	---	---	---
Phosphorus	ppm	■ 615	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 91	---	---	---

**Depot:** VP410493  
**Unique No:** 10608019  
**Signed:** Jonathan Hester  
**Report Date:** 22 Aug 2023

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# VOLVO PENTA

## GRAPHS

