

# OIL ANALYSIS REPORT

# VOLVO PENTA

## PAPPAS BOB H14932 CHRIST CRAFT PAPPAS (S/N NOT GIVEN) - PORT GASOLINE ENGINE

Sample No: VPA059448

Oil Type: DIESEL ENGINE OIL SAE 30

### SAMPLE INFORMATION

Sample Number	VPA059448	---	---	---
Sample Date	04 Oct 2023	---	---	---
Machine Hours	1252	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

### Walstrom Marine - 767948

501 Bay Street  
HARBOR SPRINGS, MI  
US 49740  
Contact: MARK LEWIS  
mlewis@walstrom.com

T:  
F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 10.2	---	---	---
Base Number (BN)	mg KOH/g	█ 7.8	---	---	---
Oxidation (PA)	%	█ 19	---	---	---

### CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	█ 11	---	---	---
Sulfation (PA)	%	█ 15	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	▲ 60	---	---	---
Sodium	ppm	█ 53	---	---	---
Potassium	ppm	█ 5	---	---	---

### WEAR METALS

Iron	ppm	▲ 370	---	---	---
Copper	ppm	▲ 147	---	---	---
Lead	ppm	● 339	---	---	---
Tin	ppm	█ 8	---	---	---
Aluminum	ppm	▲ 19	---	---	---
Chromium	ppm	█ 18	---	---	---
Molybdenum	ppm	█ 19	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	█ 1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 14	---	---	---
Vanadium	ppm	█ 0	---	---	---

### ADDITIVES

Calcium	ppm	█ 1706	---	---	---
Magnesium	ppm	█ 170	---	---	---
Zinc	ppm	█ 1045	---	---	---
Phosphorus	ppm	█ 816	---	---	---
Barium	ppm	█ 13	---	---	---
Boron	ppm	█ 146	---	---	---

### Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Cylinder, crank, or cam shaft wear is indicated. Bearing and/or bushing wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: VP154879  
Unique No: 10684515  
Signed: Jonathan Hester  
Report Date: 11 Oct 2023

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## GRAPHS

