

# OIL ANALYSIS REPORT

# VOLVO PENTA

## 50021881 - INBOARD - PORT GEARBOX

Sample No: VPA056844

Oil Type: SAE 40W

### SAMPLE INFORMATION

Sample Number	VPA056844	VPA033189	---	---
Sample Date	20 Jul 2023	06 Apr 2022	---	---
Machine Hours	1975	1830	---	---
Oil Hours	0	100	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	ABNORMAL	NORMAL	---	---

### ADVANCED DIESEL

1029 INDUSTRIAL BLVD, UNIT 2  
NAPLES, FL  
US 34104  
Contact: KEITH SPICER  
keith\_advanceddiesel@yahoo.com  
T: (239)580-8731  
F:

### OIL CONDITION

Visc @ 40°C	cSt	■ 88.5	■ 91.5	---	---
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### CONTAMINATION

Silicon	ppm	■ 5	■ 5	---	---
Sodium	ppm	■ <1	■ <1	---	---
Potassium	ppm	■ 0	■ 0	---	---

### WEAR METALS

PQ		■ 12	21	---	---
Iron	ppm	■ 8	■ 6	---	---
Copper	ppm	▲ 416	■ 162	---	---
Lead	ppm	■ 27	■ 14	---	---
Tin	ppm	■ <1	■ <1	---	---
Aluminum	ppm	■ <1	■ 2	---	---
Chromium	ppm	■ 0	■ <1	---	---
Molybdenum	ppm	■ 9	■ 11	---	---
Nickel	ppm	■ <1	0	---	---
Titanium	ppm	■ <1	■ <1	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	■ <1	■ <1	---	---
Vanadium	ppm	<1	0	---	---

### ADDITIVES

Calcium	ppm	3355	■ 3178	---	---
Magnesium	ppm	164	■ 221	---	---
Zinc	ppm	1037	■ 1050	---	---
Phosphorus	ppm	■ 977	■ 958	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	29	■ 26	---	---

### Diagnosis

Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VPADV NAP  
Unique No: 10574559  
Signed: Angela Borella  
Report Date: 28 Jul 2023

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**VOLVO  
PENTA**

## GRAPHS

