

# OIL ANALYSIS REPORT

# VOLVO PENTA

## 20014512 - INBOARD - STARBOARD GEARBOX

Sample No: VPA058218

Oil Type: SHELL ROTELLA T 40

### SAMPLE INFORMATION

Sample Number	VPA058218	VPA055776	---	---
Sample Date	30 Apr 2024	11 Sep 2023	---	---
Machine Hours	0	0	---	---
Oil Hours	20	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	SEVERE	SEVERE	---	---

### 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	■ 89.57	■ 93.83	---	---
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### CONTAMINATION

Water	%	▲ 0.193	▲ 1.01	---	---
Silicon	ppm	■ 14	■ 6	---	---
Sodium	ppm	■ 3	■ 9	---	---
Potassium	ppm	■ 11	■ 3	---	---

### WEAR METALS

PQ		▲ 305	■ 28	---	---
Iron	ppm	▲ 288	■ 64	---	---
Copper	ppm	▲ 241	▲ 530	---	---
Lead	ppm	■ 2	■ 15	---	---
Tin	ppm	■ 5	■ 2	---	---
Aluminum	ppm	■ 17	▲ 156	---	---
Chromium	ppm	■ 2	■ 0	---	---
Molybdenum	ppm	■ 24	■ 53	---	---
Nickel	ppm	▲ 109	■ 4	---	---
Titanium	ppm	1	■ <1	---	---
Silver	ppm	<1	<1	---	---
Manganese	ppm	■ 3	■ <1	---	---
Vanadium	ppm	<1	0	---	---

### ADDITIVES

Calcium	ppm	■ 3546	■ 1335	---	---
Magnesium	ppm	■ 96	■ 702	---	---
Zinc	ppm	■ 1172	■ 1126	---	---
Phosphorus	ppm	■ 1090	■ 1095	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 35	■ 6	---	---

### Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Metal levels appear high for a component breaking in. There is a light concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants and wear.

Depot: VPADVNPAP  
Unique No: 11009660  
Signed: Doug Bogart  
Report Date: 03 May 2024

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## GRAPHS

