

# OIL ANALYSIS REPORT

# VOLVO PENTA

## ANDREW ENTERPRISE LLC VOLVO PENTA 3194002067 - STARBOARD IPS

**Sample No:** VPA058122  
**Oil Type:** GEAR OIL SAE 75W90

### SAMPLE INFORMATION

Sample Number	VPA058122	---	---	---
Sample Date	10 May 2024	---	---	---
Machine Hours	829	---	---	---
Oil Hours	100	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

### OIL CONDITION

Visc @ 40°C	cSt	■ 108	---	---	---
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### CONTAMINATION

Water	%	▲ 0.456	---	---	---
Silicon	ppm	■ 12	---	---	---
Sodium	ppm	■ 7	---	---	---
Potassium	ppm	■ 0	---	---	---

### WEAR METALS

PQ		■ 21	---	---	---
Iron	ppm	● 226	---	---	---
Copper	ppm	■ 11	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 11	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 0	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 1	---	---	---
Vanadium	ppm	■ 0	---	---	---

### ADDITIVES

Calcium	ppm	■ 16	---	---	---
Magnesium	ppm	■ 2	---	---	---
Zinc	ppm	■ 14	---	---	---
Phosphorus	ppm	■ 1495	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 294	---	---	---

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### Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Gear wear is indicated. There is a moderate concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

**Depot:** VP1174336  
**Unique No:** 11043284  
**Signed:** Don Baldrige  
**Report Date:** 23 May 2024

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## GRAPHS

