

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## NADINE URCIUOLI BIDLEMAN VOLVO PENTA 4012198396 - CENTER GEARBOX

**Sample No:** VPA051504

**Oil Type:** GEAR OIL SAE 75W90

### SAMPLE INFORMATION

Sample Number	VPA051504	---	---	---
Sample Date	09 Aug 2023	---	---	---
Machine Hours	499	---	---	---
Oil Hours	499	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	ATTENTION	---	---	---

### OIL CONDITION

Visc @ 40°C	cSt	■ 97.7	---	---	---
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### CONTAMINATION

Silicon	ppm	■ 1	---	---	---
Sodium	ppm	■ 1	---	---	---
Potassium	ppm	■ 1	---	---	---

### WEAR METALS

PQ		■ 17	---	---	---
Iron	ppm	▲ 224	---	---	---
Copper	ppm	■ 2	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 5	---	---	---
Chromium	ppm	■ 2	---	---	---
Molybdenum	ppm	■ <1	---	---	---
Nickel	ppm	■ 1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	<1	---	---	---

### ADDITIVES

Calcium	ppm	■ 16	---	---	---
Magnesium	ppm	■ 4	---	---	---
Zinc	ppm	■ 4	---	---	---
Phosphorus	ppm	■ 1979	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 165	---	---	---

#### Helmut's Marine Service

619 Canal Street  
SAN RAFAEL, CA  
US 94901-3545  
Contact: NADINE URCIUOLI  
SERVICE@HELMUTSMARINE.COM

T: x:

F: x:

#### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. 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:** VP152741

**Unique No:** 10606321

**Signed:** Don Baldrige

**Report Date:** 17 Aug 2023

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## GRAPHS

