

# OIL ANALYSIS REPORT

# VOLVO PENTA

## NADINE URCIUOLI MONTEREY BAY BOAT VOLVO PENTA A393502 - INBOARD - PORT GEARBOX

Sample No: VPA051798

Oil Type: VOLVO PENTA

### SAMPLE INFORMATION

Sample Number	VPA051798	---	---	---
Sample Date	01 Aug 2023	---	---	---
Machine Hours	427	---	---	---
Oil Hours	427	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	ABNORMAL	---	---	---

### OIL CONDITION

Visc @ 40°C	cSt	106	---	---	---
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### CONTAMINATION

Silicon	ppm	▲ 21	---	---	---
Sodium	ppm	■ 21	---	---	---
Potassium	ppm	■ 2	---	---	---

### WEAR METALS

PQ		■ 18	---	---	---
Iron	ppm	▲ 200	---	---	---
Copper	ppm	■ 24	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	▲ 6	---	---	---
Chromium	ppm	■ 2	---	---	---
Molybdenum	ppm	2	---	---	---
Nickel	ppm	■ 4	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	11	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	33	---	---	---
Magnesium	ppm	5	---	---	---
Zinc	ppm	114	---	---	---
Phosphorus	ppm	1407	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	311	---	---	---

#### Helmut's Marine Service

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

T: x:

F: x:

#### Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

Depot: VP152741

Unique No: 10589791

Signed: Doug Bogart

Report Date: 08 Aug 2023

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## GRAPHS

