

OIL ANALYSIS REPORT

VOLVO PENTA

NADINE URCIUOLI MONTEREY BAY BOATWORK VOLVO PENTA A393502 - INBOARD - STARBOARD GEARBOX

Sample No: VPA055567

Oil Type: VOLVO

SAMPLE INFORMATION

Sample Number	VPA055567	---	---	---
Sample Date	01 Aug 2023	---	---	---
Machine Hours	427	---	---	---
Oil Hours	427	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	SEVERE	---	---	---

Helmuts Marine Service

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

T: x:

F: x:

OIL CONDITION

Visc @ 40°C	cSt	106.7	---	---	---
-------------	-----	-------	-----	-----	-----

CONTAMINATION

Silicon	ppm	▲ 30	---	---	---
Sodium	ppm	■ 27	---	---	---
Potassium	ppm	■ 3	---	---	---

Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. 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 oil is no longer serviceable as a result of the abnormal and/or severe wear.

WEAR METALS

PQ		■ 22	---	---	---
Iron	ppm	● 341	---	---	---
Copper	ppm	■ 26	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	▲ 6	---	---	---
Chromium	ppm	■ 2	---	---	---
Molybdenum	ppm	<1	---	---	---
Nickel	ppm	■ 5	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	6	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	8	---	---	---
Magnesium	ppm	9	---	---	---
Zinc	ppm	88	---	---	---
Phosphorus	ppm	1919	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	433	---	---	---

Depot: VP152741

Unique No: 10589075

Signed: Jonathan Hester

Report Date: 10 Aug 2023

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

