

OIL ANALYSIS REPORT

VOLVO PENTA

NADINE URCIUOLI MIKE LOVER VOLVO PENTA 3940020311 - STARBOARD IPS

Sample No: VPA051573

Oil Type: VOLVO API GL-5 SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA051573	---	---	---
Sample Date	17 Jan 2024	---	---	---
Machine Hours	428	---	---	---
Oil Hours	428	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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	---	---	---
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CONTAMINATION

Water	%	▲ 0.212	---	---	---
Silicon	ppm	■ 8	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ <1	---	---	---

WEAR METALS

PQ		■ 13	---	---	---
Iron	ppm	■ 66	---	---	---
Copper	ppm	■ 4	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ 1	---	---	---
Molybdenum	ppm	■ <1	---	---	---
Nickel	ppm	■ 1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	■ 0	---	---	---

ADDITIVES

Calcium	ppm	■ 4	---	---	---
Magnesium	ppm	■ 12	---	---	---
Zinc	ppm	■ 0	---	---	---
Phosphorus	ppm	■ 1307	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 319	---	---	---

Diagnosis

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a light concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: VP152741

Unique No: 10847400

Signed: Doug Bogart

Report Date: 26 Jan 2024

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GRAPHS

