

# OIL ANALYSIS REPORT



**NADINE URUIOLI PATRICK HENDRICKSON VOLVO PENTA MS2-INBD (S/N N/A) - CENTER GEARBOX**

**Sample No:** VPA061547

**Oil Type:** VOLVO API GL-5 SAE 75W90

## SAMPLE INFORMATION

Sample Number	VPA061547	---	---	---
Sample Date	29 May 2024	---	---	---
Machine Hours	95	---	---	---
Oil Hours	95	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

### Helmut's Marine Service

619 Canal Street  
SAN RAFAEL, CA  
US 94901-3545  
Contact: NADINE URUIOLI  
SERVICE@HELMUTSMARINE.COM  
T: x:  
F: x:

## OIL CONDITION

Visc @ 40°C	cSt	█ 105.3	---	---	---
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## CONTAMINATION

Water	%	█ 0.181	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ 1	---	---	---
Potassium	ppm	█ 1	---	---	---

## Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a trace of moisture present in the oil. The condition of the oil is acceptable for the time in service.

## WEAR METALS

PQ		█ 72	---	---	---
Iron	ppm	█ 60	---	---	---
Copper	ppm	█ 66	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 5	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 58	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ 1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	█ 0	---	---	---

## ADDITIVES

Calcium	ppm	█ 21	---	---	---
Magnesium	ppm	█ 2	---	---	---
Zinc	ppm	█ 29	---	---	---
Phosphorus	ppm	█ 1436	---	---	---
Barium	ppm	█ 9	---	---	---
Boron	ppm	█ 321	---	---	---

**Depot:** VP152741  
**Unique No:** 11059344  
**Signed:** Doug Bogart  
**Report Date:** 31 May 2024

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## GRAPHS

