

# OIL ANALYSIS REPORT

# VOLVO PENTA

**SEA WOLF SEA WOLF ZF 20290892 - INBOARD - GEARBOX**

**Sample No:** VPA050998

**Oil Type:** TOTAL

## SAMPLE INFORMATION

Sample Number	<b>VPA050998</b>	VPA036212	---	---
Sample Date	<b>15 Nov 2023</b>	15 Nov 2023	---	---
Machine Hours	<b>304</b>	301	---	---
Oil Hours	<b>301</b>	301	---	---
Oil Changed	<b>Not Changd</b>	Not Changd	---	---
Sample Status	<b>NORMAL</b>	NORMAL	---	---

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## OIL CONDITION

Visc @ 40°C	cSt	<b>70.1</b>	71.4	---	---
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## CONTAMINATION

Water	%	<b>NEG</b>	NEG	---	---
Silicon	ppm	<b>7</b>	8	---	---
Sodium	ppm	<b>0</b>	0	---	---
Potassium	ppm	<b>2</b>	2	---	---

## Diagnosis

Resample at the next service interval to monitor. All 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.

## WEAR METALS

PQ		<b>43</b>	24	---	---
Iron	ppm	<b>114</b>	70	---	---
Copper	ppm	<b>163</b>	159	---	---
Lead	ppm	<b>6</b>	3	---	---
Tin	ppm	<b>2</b>	<1	---	---
Aluminum	ppm	<b>2</b>	5	---	---
Chromium	ppm	<b>&lt;1</b>	<1	---	---
Molybdenum	ppm	<b>&lt;1</b>	0	---	---
Nickel	ppm	<b>0</b>	0	---	---
Titanium	ppm	<b>&lt;1</b>	<1	---	---
Silver	ppm	<b>0</b>	<1	---	---
Manganese	ppm	<b>&lt;1</b>	0	---	---
Vanadium	ppm	<b>0</b>	0	---	---

## ADDITIVES

Calcium	ppm	<b>3547</b>	4175	---	---
Magnesium	ppm	<b>15</b>	18	---	---
Zinc	ppm	<b>1097</b>	1271	---	---
Phosphorus	ppm	<b>941</b>	1097	---	---
Barium	ppm	<b>3</b>	6	---	---
Boron	ppm	<b>31</b>	27	---	---

**Depot:** VP288530  
**Unique No:** 10754567  
**Signed:** Jonathan Hester  
**Report Date:** 27 Nov 2023

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**VOLVO  
PENTA**

## GRAPHS

