

# OIL ANALYSIS REPORT

# VOLVO PENTA

**GAVIN JOHNSTON PATRICK/50275-9400 ZF 20059266 - INBOARD - STARBOARD GEARBOX**

**Sample No:** VPA059213

**Oil Type:** CHEVRON DELO 400 SAE 30

## SAMPLE INFORMATION

Sample Number	VPA059213	---	---	---
Sample Date	14 Feb 2024	---	---	---
Machine Hours	1095	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	SEVERE	---	---	---

**Endor Marine LLC - Coastal Marine - 152124**  
4300 11th Ave. NW  
SEATTLE, WA  
US 98107  
Contact: WILLOW YANARELLA  
service@coastalmarineengine.com  
T: (206)784-3703  
F: (206)784-8823

## OIL CONDITION

Visc @ 40°C	cSt	■ 94.0	---	---	---
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## CONTAMINATION

Water	%	▲ 0.368	---	---	---
Silicon	ppm	■ 7	---	---	---
Sodium	ppm	■ 13	---	---	---
Potassium	ppm	■ <1	---	---	---

## WEAR METALS

PQ		■ 58	---	---	---
Iron	ppm	■ 138	---	---	---
Copper	ppm	● 400	---	---	---
Lead	ppm	■ 13	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminium	ppm	■ 6	---	---	---
Chromium	ppm	■ 1	---	---	---
Molybdenum	ppm	■ 44	---	---	---
Nickel	ppm	■ 1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 1	---	---	---
Vanadium	ppm	0	---	---	---

## ADDITIVES

Calcium	ppm	■ 2714	---	---	---
Magnesium	ppm	■ 98	---	---	---
Zinc	ppm	■ 1225	---	---	---
Phosphorus	ppm	■ 948	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 7	---	---	---

## Diagnosis

We advise that you check for the source of water entry. 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. The copper level is severe. Moderate concentration of visible metal present. There is a moderate concentration of water present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

**Depot:** VP794951  
**Unique No:** 10884876  
**Signed:** Sean Felton  
**Report Date:** 20 Feb 2024

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## GRAPHS

