

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

**COLIN MADDEN PATRICK 502474-8750 ZF 20404327 - INBOARD - STARBOARD GEARBOX**

**Sample No:** VPA046298

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

## SAMPLE INFORMATION

Sample Number	VPA046298	---	---	---
Sample Date	23 Oct 2023	---	---	---
Machine Hours	1121	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

**Endor Marine LLC - Coastal Marine - 152124**  
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## OIL CONDITION

Visc @ 40°C	cSt	■ 86.3	---	---	---
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## CONTAMINATION

Silicon	ppm	■ 12	---	---	---
Sodium	ppm	■ 0	---	---	---
Potassium	ppm	■ 3	---	---	---

## 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		■ 93	---	---	---
Iron	ppm	■ 82	---	---	---
Copper	ppm	■ 133	---	---	---
Lead	ppm	■ 16	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	■ 9	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 46	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---

## ADDITIVES

Calcium	ppm	■ 3352	---	---	---
Magnesium	ppm	15	---	---	---
Zinc	ppm	■ 1107	---	---	---
Phosphorus	ppm	■ 1009	---	---	---
Barium	ppm	■ 2	---	---	---
Boron	ppm	■ 462	---	---	---

**Depot:** VP794951  
**Unique No:** 10713913  
**Signed:** Sean Felton  
**Report Date:** 30 Oct 2023

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## GRAPHS

