

# OIL ANALYSIS REPORT

# VOLVO PENTA

**MARCO KRONEN AARON 502523 VOLVO PENTA A917562 - STERNDRIVE - STARBOARD GEARBOX**

**Sample No:** VPA059142

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

## SAMPLE INFORMATION

|               |             |             |     |     |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VPA059142   | VPA033368   | --- | --- |
| Sample Date   | 13 Nov 2023 | 13 Jul 2022 | --- | --- |
| Machine Hours | 1212        | 0           | --- | --- |
| Oil Hours     | 0           | 0           | --- | --- |
| Oil Changed   | N/A         | Changed     | --- | --- |
| Sample Status | SEVERE      | 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 | ■ 104 | ■ 104 | --- | --- |
|-------------|-----|-------|-------|-----|-----|

## CONTAMINATION

|           |     |        |         |     |     |
|-----------|-----|--------|---------|-----|-----|
| Water     | %   | ● 1.82 | ▲ 0.758 | --- | --- |
| Silicon   | ppm | ■ 4    | ■ 4     | --- | --- |
| Sodium    | ppm | ■ 94   | ■ 44    | --- | --- |
| Potassium | ppm | ■ 4    | ■ 2     | --- | --- |

## WEAR METALS

|            |     |       |       |     |     |
|------------|-----|-------|-------|-----|-----|
| PQ         |     | ■ 32  | ■ 17  | --- | --- |
| Iron       | ppm | ● 463 | ● 340 | --- | --- |
| Copper     | ppm | ■ 2   | ■ 2   | --- | --- |
| Lead       | ppm | ■ 0   | ■ <1  | --- | --- |
| Tin        | ppm | ■ 0   | ■ <1  | --- | --- |
| Aluminum   | ppm | ● 9   | ● 10  | --- | --- |
| Chromium   | ppm | ■ 5   | 4     | --- | --- |
| Molybdenum | ppm | ■ <1  | ■ <1  | --- | --- |
| Nickel     | ppm | ■ 6   | 9     | --- | --- |
| Titanium   | ppm | <1    | <1    | --- | --- |
| Silver     | ppm | 0     | <1    | --- | --- |
| Manganese  | ppm | ■ 4   | ■ 4   | --- | --- |
| Vanadium   | ppm | 0     | 0     | --- | --- |

## ADDITIVES

|            |     |        |        |     |     |
|------------|-----|--------|--------|-----|-----|
| Calcium    | ppm | ■ 12   | ■ 8    | --- | --- |
| Magnesium  | ppm | ■ 14   | ■ 13   | --- | --- |
| Zinc       | ppm | ■ 15   | ■ 11   | --- | --- |
| Phosphorus | ppm | ■ 1288 | ■ 1300 | --- | --- |
| Barium     | ppm | ■ <1   | ■ 0    | --- | --- |
| Boron      | ppm | ■ 315  | ■ 286  | --- | --- |

## 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. Gear wear is indicated. Appearance is unacceptable. There is a high 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:** 10750293  
**Signed:** Sean Felton  
**Report Date:** 21 Nov 2023

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PENTA**

## GRAPHS

