

# OIL ANALYSIS REPORT

# VOLVO PENTA

**13870 VOLVO PENTA 3200003797 - STARBOARD IPS**

**Sample No:** VPA055298

**Oil Type:** NOT GIVEN

## SAMPLE INFORMATION

|               |             |             |     |     |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VPA055298   | VPA048306   | --- | --- |
| Sample Date   | 06 Oct 2023 | 20 Oct 2022 | --- | --- |
| Machine Hours | 124         | 71          | --- | --- |
| Oil Hours     | 0           | 0           | --- | --- |
| Oil Changed   | N/A         | N/A         | --- | --- |
| Sample Status | NORMAL      | SEVERE      | --- | --- |

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## OIL CONDITION

|             |     |         |       |     |     |
|-------------|-----|---------|-------|-----|-----|
| Visc @ 40°C | cSt | ■ 106.1 | ■ 234 | --- | --- |
|-------------|-----|---------|-------|-----|-----|

## CONTAMINATION

|           |     |      |        |     |     |
|-----------|-----|------|--------|-----|-----|
| Water     | %   | ---  | ■ 29.6 | --- | --- |
| Silicon   | ppm | ■ 2  | ■ 8    | --- | --- |
| Sodium    | ppm | ■ 43 | ▲ 1872 | --- | --- |
| Potassium | ppm | ■ 6  | ▲ 84   | --- | --- |

## 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 no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

## WEAR METALS

|            |     |       |      |     |     |
|------------|-----|-------|------|-----|-----|
| PQ         |     | ■ 19  | ■ 42 | --- | --- |
| Iron       | ppm | ■ 178 | ■ 82 | --- | --- |
| Copper     | ppm | ■ 19  | ■ 9  | --- | --- |
| Lead       | ppm | ■ 0   | ■ 2  | --- | --- |
| Tin        | ppm | <1    | ■ 5  | --- | --- |
| Aluminum   | ppm | ■ 3   | ■ 4  | --- | --- |
| Chromium   | ppm | ■ 1   | ■ <1 | --- | --- |
| Molybdenum | ppm | ■ 0   | ■ <1 | --- | --- |
| Nickel     | ppm | ■ 2   | ■ <1 | --- | --- |
| Titanium   | ppm | <1    | ■ 0  | --- | --- |
| Silver     | ppm | <1    | <1   | --- | --- |
| Manganese  | ppm | ■ 6   | ■ 7  | --- | --- |
| Vanadium   | ppm | ■ 0   | <1   | --- | --- |

## ADDITIVES

|            |     |        |        |     |     |
|------------|-----|--------|--------|-----|-----|
| Calcium    | ppm | ■ 19   | ■ 134  | --- | --- |
| Magnesium  | ppm | ■ 71   | ■ 828  | --- | --- |
| Zinc       | ppm | ■ 187  | ■ 30   | --- | --- |
| Phosphorus | ppm | ■ 1413 | ■ 1183 | --- | --- |
| Barium     | ppm | ■ 0    | ■ 0    | --- | --- |
| Boron      | ppm | ■ 231  | ■ 331  | --- | --- |

**Depot:** VP153457  
**Unique No:** 10686569  
**Signed:** Doug Bogart  
**Report Date:** 10 Oct 2023

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## GRAPHS

