

# OIL ANALYSIS REPORT

# VOLVO PENTA

**GREG WILLIAMS TAP557301 VOLVO PENTA 70112003804 - PORT DIESEL ENGINE**

**Sample No:** VPA053498

**Oil Type:** DIESEL ENGINE OIL SAE 15W40

## SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA053498   | --- | --- | --- |
| Sample Date   | 04 Jun 2024 | --- | --- | --- |
| Machine Hours | 452         | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | Changed     | --- | --- | --- |
| Sample Status | NORMAL      | --- | --- | --- |

## FDDA TAMPA

TAMPA, FL  
US  
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## OIL CONDITION

|                  |          |        |     |     |     |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C     | cSt      | █ 12.3 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 9.1  | --- | --- | --- |
| Oxidation (PA)   | %        | 55     | --- | --- | --- |

## CONTAMINATION

|                |     |       |     |     |     |
|----------------|-----|-------|-----|-----|-----|
| Water          | %   | NEG   | --- | --- | --- |
| Soot %         | %   | █ 0.4 | --- | --- | --- |
| Nitration (PA) | %   | 53    | --- | --- | --- |
| Sulfation (PA) | %   | 52    | --- | --- | --- |
| Glycol         | %   | NEG   | --- | --- | --- |
| Fuel           | %   | <1.0  | --- | --- | --- |
| Silicon        | ppm | █ 8   | --- | --- | --- |
| Sodium         | ppm | █ 0   | --- | --- | --- |
| Potassium      | ppm | █ 2   | --- | --- | --- |

## Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

## WEAR METALS

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Iron       | ppm | █ 12 | --- | --- | --- |
| Copper     | ppm | █ 27 | --- | --- | --- |
| Lead       | ppm | █ 1  | --- | --- | --- |
| Tin        | ppm | █ <1 | --- | --- | --- |
| Aluminum   | ppm | █ 3  | --- | --- | --- |
| Chromium   | ppm | █ <1 | --- | --- | --- |
| Molybdenum | ppm | █ 63 | --- | --- | --- |
| Nickel     | ppm | █ <1 | --- | --- | --- |
| Titanium   | ppm | █ <1 | --- | --- | --- |
| Silver     | ppm | █ 0  | --- | --- | --- |
| Manganese  | ppm | █ 0  | --- | --- | --- |
| Vanadium   | ppm | 0    | --- | --- | --- |

## ADDITIVES

|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | █ 1081 | --- | --- | --- |
| Magnesium  | ppm | █ 976  | --- | --- | --- |
| Zinc       | ppm | █ 1242 | --- | --- | --- |
| Phosphorus | ppm | █ 1072 | --- | --- | --- |
| Barium     | ppm | █ 1    | --- | --- | --- |
| Boron      | ppm | █ <1   | --- | --- | --- |

**Depot:** VP208641  
**Unique No:** 11071570  
**Signed:** Sean Felton  
**Report Date:** 12 Jun 2024

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## GRAPHS

