

# OIL ANALYSIS REPORT



**ROBERT DIMURRO MATTHEW DOW VOLVO PENTA 3940025911 - PORT IPS**

**Sample No:** VPA055507  
**Oil Type:** GEAR OIL SAE 75W90

## SAMPLE INFORMATION

|               |                    |             |             |     |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | <b>VPA055507</b>   | VPA047879   | VPA047341   | --- |
| Sample Date   | <b>02 May 2024</b> | 20 Mar 2023 | 30 Mar 2022 | --- |
| Machine Hours | <b>194</b>         | 173         | 141         | --- |
| Oil Hours     | <b>21</b>          | 32          | 0           | --- |
| Oil Changed   | <b>Changed</b>     | Changed     | Changed     | --- |
| Sample Status | <b>NORMAL</b>      | NORMAL      | NORMAL      | --- |

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## OIL CONDITION

|             |     |            |     |     |     |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | <b>104</b> | 107 | 102 | --- |
|-------------|-----|------------|-----|-----|-----|

## CONTAMINATION

|           |     |            |     |     |     |
|-----------|-----|------------|-----|-----|-----|
| Water     | %   | <b>NEG</b> | NEG | NEG | --- |
| Silicon   | ppm | <b>6</b>   | 6   | 7   | --- |
| Sodium    | ppm | <b>0</b>   | 0   | 1   | --- |
| Potassium | ppm | <b>2</b>   | 2   | 2   | --- |

## 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         |     | <b>15</b>    | 12 | 16 | --- |
| Iron       | ppm | <b>14</b>    | 18 | 26 | --- |
| Copper     | ppm | <b>2</b>     | 2  | 6  | --- |
| Lead       | ppm | <b>&lt;1</b> | 0  | 0  | --- |
| Tin        | ppm | <b>&lt;1</b> | 0  | 0  | --- |
| Aluminum   | ppm | <b>2</b>     | 0  | <1 | --- |
| Chromium   | ppm | <b>&lt;1</b> | 0  | <1 | --- |
| Molybdenum | ppm | <b>&lt;1</b> | <1 | 3  | --- |
| Nickel     | ppm | <b>&lt;1</b> | 0  | 0  | --- |
| Titanium   | ppm | <b>&lt;1</b> | 0  | 0  | --- |
| Silver     | ppm | <b>&lt;1</b> | 0  | 0  | --- |
| Manganese  | ppm | <b>&lt;1</b> | <1 | 1  | --- |
| Vanadium   | ppm | <b>&lt;1</b> | 0  | 0  | --- |

## ADDITIVES

|            |     |             |      |      |     |
|------------|-----|-------------|------|------|-----|
| Calcium    | ppm | <b>5</b>    | 17   | 65   | --- |
| Magnesium  | ppm | <b>12</b>   | 30   | 307  | --- |
| Zinc       | ppm | <b>7</b>    | 13   | 62   | --- |
| Phosphorus | ppm | <b>1352</b> | 1273 | 1433 | --- |
| Barium     | ppm | <b>0</b>    | 0    | 0    | --- |
| Boron      | ppm | <b>396</b>  | 354  | 442  | --- |

**Depot:** VP443016  
**Unique No:** 11046304  
**Signed:** Don Baldrige  
**Report Date:** 28 May 2024

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**VOLVO  
PENTA**

## GRAPHS

