

# OIL ANALYSIS REPORT

# VOLVO PENTA

## 7011245501 - PORT DIESEL ENGINE

Sample No: VPA059643

Oil Type: VOLVO PENTA SAE 15W40

### SAMPLE INFORMATION

|               |             |             |     |     |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VPA059643   | VPA027559   | --- | --- |
| Sample Date   | 16 Dec 2023 | 03 Mar 2022 | --- | --- |
| Machine Hours | 2143        | 1700        | --- | --- |
| Oil Hours     | 0           | 150         | --- | --- |
| Oil Changed   | Changed     | Changed     | --- | --- |
| Sample Status | NORMAL      | NORMAL      | --- | --- |

### OIL CONDITION

|                  |          |      |      |     |     |
|------------------|----------|------|------|-----|-----|
| Visc @ 100°C     | cSt      | 12.3 | 12.4 | --- | --- |
| Base Number (BN) | mg KOH/g | 9.1  | 10.0 | --- | --- |
| Oxidation (PA)   | %        | 59   | 63   | --- | --- |

### CONTAMINATION

|                |     |      |     |     |     |
|----------------|-----|------|-----|-----|-----|
| Water          | %   | NEG  | NEG | --- | --- |
| Soot %         | %   | 0.5  | 0.6 | --- | --- |
| Nitration (PA) | %   | 59   | 65  | --- | --- |
| Sulfation (PA) | %   | 55   | 59  | --- | --- |
| Glycol         | %   | NEG  | NEG | --- | --- |
| Fuel           | %   | <1.0 | 0.9 | --- | --- |
| Silicon        | ppm | 3    | 5   | --- | --- |
| Sodium         | ppm | 2    | 2   | --- | --- |
| Potassium      | ppm | 0    | 2   | --- | --- |

### WEAR METALS

|            |     |    |    |     |     |
|------------|-----|----|----|-----|-----|
| Iron       | ppm | 10 | 38 | --- | --- |
| Copper     | ppm | 7  | 25 | --- | --- |
| Lead       | ppm | 1  | 4  | --- | --- |
| Tin        | ppm | 0  | 2  | --- | --- |
| Aluminum   | ppm | 15 | 66 | --- | --- |
| Chromium   | ppm | 1  | 4  | --- | --- |
| Molybdenum | ppm | 50 | 64 | --- | --- |
| Nickel     | ppm | 1  | 0  | --- | --- |
| Titanium   | ppm | 0  | 0  | --- | --- |
| Silver     | ppm | 0  | <1 | --- | --- |
| Manganese  | ppm | 0  | <1 | --- | --- |
| Vanadium   | ppm | 0  | 0  | --- | --- |

### ADDITIVES

|            |     |      |      |     |     |
|------------|-----|------|------|-----|-----|
| Calcium    | ppm | 1019 | 1145 | --- | --- |
| Magnesium  | ppm | 909  | 1045 | --- | --- |
| Zinc       | ppm | 1148 | 1378 | --- | --- |
| Phosphorus | ppm | 902  | 1120 | --- | --- |
| Barium     | ppm | 0    | 0    | --- | --- |
| Boron      | ppm | 0    | 3    | --- | --- |

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#### Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. 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 acceptable for the time in service.

Depot: VPMITBOC

Unique No: 10805125

Signed: Sean Felton

Report Date: 27 Dec 2023

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## GRAPHS

