

# OIL ANALYSIS REPORT

# VOLVO PENTA

**PHIL PHIL CUMMINS C220056004 - GENSET**

**Sample No:** VPA058287

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

## SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA058287   | --- | --- | --- |
| Sample Date   | 07 May 2024 | --- | --- | --- |
| Machine Hours | 0           | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | N/A         | --- | --- | --- |
| Sample Status | NORMAL      | --- | --- | --- |

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## OIL CONDITION

|                  |          |         |     |     |     |
|------------------|----------|---------|-----|-----|-----|
| Visc @ 100°C     | cSt      | █ 13.41 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 8.0   | --- | --- | --- |
| Oxidation (PA)   | %        | 51      | --- | --- | --- |

## 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

## CONTAMINATION

|                |     |       |     |     |     |
|----------------|-----|-------|-----|-----|-----|
| Water          | %   | NEG   | --- | --- | --- |
| Soot %         | %   | █ 0.1 | --- | --- | --- |
| Nitration (PA) | %   | 60    | --- | --- | --- |
| Sulfation (PA) | %   | 49    | --- | --- | --- |
| Glycol         | %   | NEG   | --- | --- | --- |
| Fuel           | %   | <1.0  | --- | --- | --- |
| Silicon        | ppm | █ 13  | --- | --- | --- |
| Sodium         | ppm | █ 3   | --- | --- | --- |
| Potassium      | ppm | █ 3   | --- | --- | --- |

## WEAR METALS

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Iron       | ppm | █ 11 | --- | --- | --- |
| Copper     | ppm | █ 7  | --- | --- | --- |
| Lead       | ppm | █ <1 | --- | --- | --- |
| Tin        | ppm | █ <1 | --- | --- | --- |
| Aluminum   | ppm | █ 2  | --- | --- | --- |
| Chromium   | ppm | █ <1 | --- | --- | --- |
| Molybdenum | ppm | 11   | --- | --- | --- |
| Nickel     | ppm | █ <1 | --- | --- | --- |
| Titanium   | ppm | <1   | --- | --- | --- |
| Silver     | ppm | █ 0  | --- | --- | --- |
| Manganese  | ppm | <1   | --- | --- | --- |
| Vanadium   | ppm | 0    | --- | --- | --- |

## ADDITIVES

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Calcium    | ppm | 1301 | --- | --- | --- |
| Magnesium  | ppm | 690  | --- | --- | --- |
| Zinc       | ppm | 813  | --- | --- | --- |
| Phosphorus | ppm | 666  | --- | --- | --- |
| Barium     | ppm | 0    | --- | --- | --- |
| Boron      | ppm | 96   | --- | --- | --- |

**Depot:** VP867279

**Unique No:** 11019160

**Signed:** Doug Bogart

**Report Date:** 10 May 2024

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## GRAPHS

