

# OIL ANALYSIS REPORT

# VOLVO PENTA

## RICHARD CANNY ONAN D110210256 - GENSET

Sample No: VPA042409

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

### SAMPLE INFORMATION

|               |             |             |     |     |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VPA042409   | VPA028518   | --- | --- |
| Sample Date   | 15 Feb 2023 | 24 Feb 2022 | --- | --- |
| Machine Hours | 85          | 80          | --- | --- |
| Oil Hours     | 0           | 0           | --- | --- |
| Oil Changed   | Changed     | Changed     | --- | --- |
| Sample Status | NORMAL      | NORMAL      | --- | --- |

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### OIL CONDITION

|                  |          |        |        |     |     |
|------------------|----------|--------|--------|-----|-----|
| Visc @ 100°C     | cSt      | █ 13.4 | █ 13.2 | --- | --- |
| Base Number (BN) | mg KOH/g | █ 9.9  | 8.3    | --- | --- |
| Oxidation (PA)   | %        | 55     | 49     | --- | --- |

### 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 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   | NEG   | --- | --- |
| Soot %         | %   | █ 0.1 | █ 0.1 | --- | --- |
| Nitration (PA) | %   | 40    | 42    | --- | --- |
| Sulfation (PA) | %   | 50    | 43    | --- | --- |
| Glycol         | %   | NEG   | NEG   | --- | --- |
| Fuel           | %   | <1.0  | <1.0  | --- | --- |
| Silicon        | ppm | █ 6   | █ 6   | --- | --- |
| Sodium         | ppm | █ <1  | █ 2   | --- | --- |
| Potassium      | ppm | █ 2   | █ 0   | --- | --- |

### WEAR METALS

|            |     |      |      |     |     |
|------------|-----|------|------|-----|-----|
| Iron       | ppm | █ 4  | █ 9  | --- | --- |
| Copper     | ppm | █ <1 | █ 1  | --- | --- |
| Lead       | ppm | █ <1 | █ <1 | --- | --- |
| Tin        | ppm | █ <1 | █ 2  | --- | --- |
| Aluminum   | ppm | █ 1  | █ 4  | --- | --- |
| Chromium   | ppm | █ <1 | █ <1 | --- | --- |
| Molybdenum | ppm | █ 57 | 53   | --- | --- |
| Nickel     | ppm | █ 0  | █ 0  | --- | --- |
| Titanium   | ppm | 0    | <1   | --- | --- |
| Silver     | ppm | █ 0  | <1   | --- | --- |
| Manganese  | ppm | █ 1  | <1   | --- | --- |
| Vanadium   | ppm | 0    | 0    | --- | --- |

### ADDITIVES

|            |     |        |      |     |     |
|------------|-----|--------|------|-----|-----|
| Calcium    | ppm | █ 1106 | 989  | --- | --- |
| Magnesium  | ppm | █ 994  | 888  | --- | --- |
| Zinc       | ppm | █ 1285 | 1034 | --- | --- |
| Phosphorus | ppm | █ 989  | 969  | --- | --- |
| Barium     | ppm | █ 0    | 0    | --- | --- |
| Boron      | ppm | █ <1   | 15   | --- | --- |

Depot: VP297371

Unique No: 10351219

Signed: Angela Borella

Report Date: 27 Feb 2023

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## GRAPHS

