

# OIL ANALYSIS REPORT

# VOLVO PENTA

## KREIDER VOLVO PENTA CRSMDA39A808 - PORT DIESEL ENGINE

Sample No: VPA050712

Oil Type: DIESEL ENGINE OIL SAE 40

### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA050712   | --- | --- | --- |
| Sample Date   | 15 Mar 2024 | --- | --- | --- |
| Machine Hours | 0           | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | Changed     | --- | --- | --- |
| Sample Status | NORMAL      | --- | --- | --- |

### OIL CONDITION

|                  |          |        |     |     |     |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C     | cSt      | █ 13.5 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 10.2 | --- | --- | --- |
| Oxidation (PA)   | %        | 54     | --- | --- | --- |

### CONTAMINATION

|                |     |      |     |     |     |
|----------------|-----|------|-----|-----|-----|
| Water          | %   | NEG  | --- | --- | --- |
| Soot %         | %   | █ 0  | --- | --- | --- |
| Nitration (PA) | %   | 38   | --- | --- | --- |
| Sulfation (PA) | %   | 49   | --- | --- | --- |
| Glycol         | %   | NEG  | --- | --- | --- |
| Fuel           | %   | <1.0 | --- | --- | --- |
| Silicon        | ppm | █ 10 | --- | --- | --- |
| Sodium         | ppm | █ 0  | --- | --- | --- |
| Potassium      | ppm | █ 2  | --- | --- | --- |

### WEAR METALS

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Iron       | ppm | █ 9  | --- | --- | --- |
| Copper     | ppm | █ 1  | --- | --- | --- |
| Lead       | ppm | █ <1 | --- | --- | --- |
| Tin        | ppm | █ <1 | --- | --- | --- |
| Aluminum   | ppm | █ 1  | --- | --- | --- |
| Chromium   | ppm | █ <1 | --- | --- | --- |
| Molybdenum | ppm | █ 62 | --- | --- | --- |
| Nickel     | ppm | █ <1 | --- | --- | --- |
| Titanium   | ppm | █ <1 | --- | --- | --- |
| Silver     | ppm | █ 0  | --- | --- | --- |
| Manganese  | ppm | █ <1 | --- | --- | --- |
| Vanadium   | ppm | <1   | --- | --- | --- |

### ADDITIVES

|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | █ 1101 | --- | --- | --- |
| Magnesium  | ppm | █ 893  | --- | --- | --- |
| Zinc       | ppm | █ 1186 | --- | --- | --- |
| Phosphorus | ppm | █ 1086 | --- | --- | --- |
| Barium     | ppm | █ <1   | --- | --- | --- |
| Boron      | ppm | █ 6    | --- | --- | --- |

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#### 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.

Depot: VP610610

Unique No: 10949818

Signed: Don Baldrige

Report Date: 30 Mar 2024

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## GRAPHS

