

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## JOURNEY JOURNEY KOHLER 33F4GMLC0005 - STARBOARD GENSET

Sample No: VPA057204

Oil Type: SHELL ROTELLA T6 5W40

### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA057204   | --- | --- | --- |
| Sample Date   | 18 May 2024 | --- | --- | --- |
| Machine Hours | 909         | --- | --- | --- |
| Oil Hours     | 909         | --- | --- | --- |
| Oil Changed   | Changed     | --- | --- | --- |
| Sample Status | ABNORMAL    | --- | --- | --- |

### OIL CONDITION

|                  |          |         |     |     |     |
|------------------|----------|---------|-----|-----|-----|
| Visc @ 100°C     | cSt      | █ 14.42 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 7.4   | --- | --- | --- |
| Oxidation (PA)   | %        | █ 67    | --- | --- | --- |

### CONTAMINATION

|                |     |         |     |     |     |
|----------------|-----|---------|-----|-----|-----|
| Water          | %   | ▲ 0.532 | --- | --- | --- |
| Soot %         | %   | █ 0.1   | --- | --- | --- |
| Nitration (PA) | %   | █ 78    | --- | --- | --- |
| Sulfation (PA) | %   | █ 53    | --- | --- | --- |
| Glycol         | %   | NEG     | --- | --- | --- |
| Fuel           | %   | █ 0.8   | --- | --- | --- |
| Silicon        | ppm | █ 9     | --- | --- | --- |
| Sodium         | ppm | █ 4     | --- | --- | --- |
| Potassium      | ppm | █ 6     | --- | --- | --- |

### WEAR METALS

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Iron       | ppm | █ 12 | --- | --- | --- |
| Copper     | ppm | █ 5  | --- | --- | --- |
| Lead       | ppm | █ <1 | --- | --- | --- |
| Tin        | ppm | █ <1 | --- | --- | --- |
| Aluminum   | ppm | █ 2  | --- | --- | --- |
| Chromium   | ppm | █ 1  | --- | --- | --- |
| Molybdenum | ppm | █ 0  | --- | --- | --- |
| Nickel     | ppm | █ <1 | --- | --- | --- |
| Titanium   | ppm | <1   | --- | --- | --- |
| Silver     | ppm | █ <1 | --- | --- | --- |
| Manganese  | ppm | █ 1  | --- | --- | --- |
| Vanadium   | ppm | █ 0  | --- | --- | --- |

### ADDITIVES

|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | █ 1993 | --- | --- | --- |
| Magnesium  | ppm | █ 142  | --- | --- | --- |
| Zinc       | ppm | █ 1185 | --- | --- | --- |
| Phosphorus | ppm | █ 1015 | --- | --- | --- |
| Barium     | ppm | █ 2    | --- | --- | --- |
| Boron      | ppm | █ 161  | --- | --- | --- |

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### Diagnosis

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate concentration of water present 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: VPSENNOR

Unique No: 11059512

Signed: Jonathan Hester

Report Date: 11 Jun 2024

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## GRAPHS

