

# OIL ANALYSIS REPORT

# VOLVO PENTA

## KOHLER SGM32M4G2 - GENSET

Sample No: VPA058699

Oil Type: DIESEL ENGINE OIL SAE 15W40

### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA058699   | --- | --- | --- |
| Sample Date   | 27 Mar 2024 | --- | --- | --- |
| Machine Hours | 794         | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | Not Changd  | --- | --- | --- |
| Sample Status | ATTENTION   | --- | --- | --- |

### JOHNSTONS MARINE SERVICES

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### OIL CONDITION

|                  |          |        |     |     |     |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C     | cSt      | ● 11.9 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | ■ 8.9  | --- | --- | --- |
| Oxidation (PA)   | %        | 69     | --- | --- | --- |

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

### CONTAMINATION

|                |     |       |     |     |     |
|----------------|-----|-------|-----|-----|-----|
| Water          | %   | NEG   | --- | --- | --- |
| Soot %         | %   | ■ 0.3 | --- | --- | --- |
| Nitration (PA) | %   | 78    | --- | --- | --- |
| Sulfation (PA) | %   | 55    | --- | --- | --- |
| Glycol         | %   | NEG   | --- | --- | --- |
| Fuel           | %   | ■ 0.9 | --- | --- | --- |
| Silicon        | ppm | ■ 4   | --- | --- | --- |
| Sodium         | ppm | ■ 2   | --- | --- | --- |
| Potassium      | ppm | ■ 1   | --- | --- | --- |

### WEAR METALS

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Iron       | ppm | ■ 32 | --- | --- | --- |
| Copper     | ppm | ■ 8  | --- | --- | --- |
| Lead       | ppm | ■ 1  | --- | --- | --- |
| Tin        | ppm | ■ <1 | --- | --- | --- |
| Aluminum   | ppm | ■ 4  | --- | --- | --- |
| Chromium   | ppm | ■ 1  | --- | --- | --- |
| Molybdenum | ppm | ■ 55 | --- | --- | --- |
| Nickel     | ppm | ■ 4  | --- | --- | --- |
| Titanium   | ppm | ■ 0  | --- | --- | --- |
| Silver     | ppm | ■ 0  | --- | --- | --- |
| Manganese  | ppm | ■ <1 | --- | --- | --- |
| Vanadium   | ppm | 0    | --- | --- | --- |

### ADDITIVES

|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | ■ 1009 | --- | --- | --- |
| Magnesium  | ppm | ■ 905  | --- | --- | --- |
| Zinc       | ppm | ■ 1207 | --- | --- | --- |
| Phosphorus | ppm | ■ 1002 | --- | --- | --- |
| Barium     | ppm | ■ 0    | --- | --- | --- |
| Boron      | ppm | ■ 3    | --- | --- | --- |

Depot: VPJOHDEE  
Unique No: 10952483  
Signed: Jonathan Hester  
Report Date: 03 Apr 2024

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## GRAPHS

