

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## ZF 50037569 - INBOARD - PORT GEARBOX

Sample No: VPA060387

Oil Type: SHELL ROTELLA T 30

### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA060387   | --- | --- | --- |
| Sample Date   | 13 Oct 2023 | --- | --- | --- |
| Machine Hours | 164         | --- | --- | --- |
| Oil Hours     | 164         | --- | --- | --- |
| Oil Changed   | Not Changd  | --- | --- | --- |
| Sample Status | NORMAL      | --- | --- | --- |

### OIL CONDITION

|             |     |       |     |     |     |
|-------------|-----|-------|-----|-----|-----|
| Visc @ 40°C | cSt | █ 126 | --- | --- | --- |
|-------------|-----|-------|-----|-----|-----|

### CONTAMINATION

|           |     |     |     |     |     |
|-----------|-----|-----|-----|-----|-----|
| Silicon   | ppm | █ 5 | --- | --- | --- |
| Sodium    | ppm | █ 4 | --- | --- | --- |
| Potassium | ppm | █ 1 | --- | --- | --- |

### WEAR METALS

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| PQ         |     | █ 13 | --- | --- | --- |
| Iron       | ppm | █ 12 | --- | --- | --- |
| Copper     | ppm | █ 49 | --- | --- | --- |
| Lead       | ppm | █ 6  | --- | --- | --- |
| Tin        | ppm | █ 1  | --- | --- | --- |
| Aluminum   | ppm | █ 4  | --- | --- | --- |
| Chromium   | ppm | █ <1 | --- | --- | --- |
| Molybdenum | ppm | █ 0  | --- | --- | --- |
| Nickel     | ppm | █ <1 | --- | --- | --- |
| Titanium   | ppm | <1   | --- | --- | --- |
| Silver     | ppm | <1   | --- | --- | --- |
| Manganese  | ppm | █ 1  | --- | --- | --- |
| Vanadium   | ppm | 0    | --- | --- | --- |

### ADDITIVES

|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | █ 4254 | --- | --- | --- |
| Magnesium  | ppm | █ 32   | --- | --- | --- |
| Zinc       | ppm | █ 998  | --- | --- | --- |
| Phosphorus | ppm | █ 819  | --- | --- | --- |
| Barium     | ppm | █ <1   | --- | --- | --- |
| Boron      | ppm | █ 3    | --- | --- | --- |

### SMART DIESEL SERVICE

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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 condition of the oil is acceptable for the time in service.

Depot: VPSMAPLA  
Unique No: 10708534  
Signed: Angela Borella  
Report Date: 24 Oct 2023

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## GRAPHS

