

# OIL ANALYSIS REPORT

# VOLVO PENTA

## RICHARD ALLEN VOLVO PENTA 7009110631 - PORT DIESEL ENGINE

**Sample No:** VPA044353  
**Oil Type:** DIESEL ENGINE OIL SAE 40

### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA044353   | --- | --- | --- |
| Sample Date   | 30 Jun 2023 | --- | --- | --- |
| Machine Hours | 0           | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | Changed     | --- | --- | --- |
| Sample Status | NORMAL      | --- | --- | --- |

### OIL CONDITION

|                  |          |        |     |     |     |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C     | cSt      | █ 14.0 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 10.5 | --- | --- | --- |
| Oxidation (PA)   | %        | 43     | --- | --- | --- |

### CONTAMINATION

|                |     |       |     |     |     |
|----------------|-----|-------|-----|-----|-----|
| Soot %         | %   | █ 0.1 | --- | --- | --- |
| Nitration (PA) | %   | 53    | --- | --- | --- |
| Sulfation (PA) | %   | 47    | --- | --- | --- |
| Glycol         | %   | NEG   | --- | --- | --- |
| Fuel           | %   | <1.0  | --- | --- | --- |
| Silicon        | ppm | █ 10  | --- | --- | --- |
| Sodium         | ppm | █ 0   | --- | --- | --- |
| Potassium      | ppm | █ 3   | --- | --- | --- |

### WEAR METALS

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Iron       | ppm | █ 5  | --- | --- | --- |
| Copper     | ppm | █ 7  | --- | --- | --- |
| Lead       | ppm | █ <1 | --- | --- | --- |
| Tin        | ppm | █ <1 | --- | --- | --- |
| Aluminum   | ppm | █ 2  | --- | --- | --- |
| Chromium   | ppm | █ 0  | --- | --- | --- |
| Molybdenum | ppm | █ <1 | --- | --- | --- |
| Nickel     | ppm | █ <1 | --- | --- | --- |
| Titanium   | ppm | █ 0  | --- | --- | --- |
| Silver     | ppm | █ 0  | --- | --- | --- |
| Manganese  | ppm | █ 0  | --- | --- | --- |
| Vanadium   | ppm | 0    | --- | --- | --- |

### ADDITIVES

|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | █ 3365 | --- | --- | --- |
| Magnesium  | ppm | █ 9    | --- | --- | --- |
| Zinc       | ppm | █ 1269 | --- | --- | --- |
| Phosphorus | ppm | █ 1110 | --- | --- | --- |
| Barium     | ppm | █ 0    | --- | --- | --- |
| Boron      | ppm | █ 0    | --- | --- | --- |

### MARINE EVOLUTIONS

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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 suitable for further service.

**Depot:** VP446360  
**Unique No:** 10552495  
**Signed:** Don Baldrige  
**Report Date:** 14 Jul 2023

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## GRAPHS

