

# OIL ANALYSIS REPORT

# VOLVO PENTA

## JOHN BRADEN GREG E. VOLVO PENTA A895592 - STARBOARD DIESEL ENGINE

Sample No: VPA057492

Oil Type: VOLVO PENTA SAE 15W40

### SAMPLE INFORMATION

|               |             |             |     |     |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VPA057492   | VPA042053   | --- | --- |
| Sample Date   | 19 Jun 2024 | 21 Jun 2023 | --- | --- |
| Machine Hours | 333         | 317         | --- | --- |
| Oil Hours     | 0           | 100         | --- | --- |
| Oil Changed   | Changed     | Changed     | --- | --- |
| Sample Status | NORMAL      | NORMAL      | --- | --- |

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### OIL CONDITION

|                  |          |        |        |     |     |
|------------------|----------|--------|--------|-----|-----|
| Visc @ 100°C     | cSt      | █ 13.4 | █ 13.3 | --- | --- |
| Base Number (BN) | mg KOH/g | █ 10.0 | █ 10.2 | --- | --- |
| Oxidation (PA)   | %        | 54     | 61     | --- | --- |

### 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.

### CONTAMINATION

|                |     |       |       |     |     |
|----------------|-----|-------|-------|-----|-----|
| Water          | %   | NEG   | NEG   | --- | --- |
| Soot %         | %   | █ 0.1 | █ 0.2 | --- | --- |
| Nitration (PA) | %   | 42    | 58    | --- | --- |
| Sulfation (PA) | %   | 49    | 54    | --- | --- |
| Glycol         | %   | NEG   | NEG   | --- | --- |
| Fuel           | %   | <1.0  | <1.0  | --- | --- |
| Silicon        | ppm | █ 4   | █ 5   | --- | --- |
| Sodium         | ppm | █ 3   | █ 2   | --- | --- |
| Potassium      | ppm | █ <1  | █ 2   | --- | --- |

### WEAR METALS

|            |     |      |      |     |     |
|------------|-----|------|------|-----|-----|
| Iron       | ppm | █ 6  | █ 21 | --- | --- |
| Copper     | ppm | █ 2  | █ 7  | --- | --- |
| Lead       | ppm | █ 0  | █ 0  | --- | --- |
| Tin        | ppm | █ 0  | █ <1 | --- | --- |
| Aluminum   | ppm | █ 2  | █ <1 | --- | --- |
| Chromium   | ppm | █ <1 | █ <1 | --- | --- |
| Molybdenum | ppm | █ 61 | █ 59 | --- | --- |
| Nickel     | ppm | █ 0  | █ 1  | --- | --- |
| Titanium   | ppm | █ 0  | █ 0  | --- | --- |
| Silver     | ppm | █ 0  | █ 0  | --- | --- |
| Manganese  | ppm | █ 0  | █ <1 | --- | --- |
| Vanadium   | ppm | 0    | 0    | --- | --- |

### ADDITIVES

|            |     |        |        |     |     |
|------------|-----|--------|--------|-----|-----|
| Calcium    | ppm | █ 1076 | █ 1109 | --- | --- |
| Magnesium  | ppm | 1050   | 971    | --- | --- |
| Zinc       | ppm | █ 1366 | █ 1236 | --- | --- |
| Phosphorus | ppm | █ 1178 | █ 1026 | --- | --- |
| Barium     | ppm | █ 0    | █ 0    | --- | --- |
| Boron      | ppm | █ 2    | █ 7    | --- | --- |

Depot: VP648685

Unique No: 11110434

Signed: Don Baldrige

Report Date: 05 Jul 2024

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## GRAPHS

