

# OIL ANALYSIS REPORT

# VOLVO PENTA

**JAY HENDRIX 533073 VOLVO PENTA 7011440527 - STARBOARD DIESEL ENGINE**

**Sample No:** VPA042603

**Oil Type:** NOT GIVEN

## SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA042603   | --- | --- | --- |
| Sample Date   | 30 Aug 2023 | --- | --- | --- |
| Machine Hours | 877         | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | N/A         | --- | --- | --- |
| Sample Status | ABNORMAL    | --- | --- | --- |

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## OIL CONDITION

|                  |          |        |     |     |     |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C     | cSt      | ▲ 12.4 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | ■ 9.4  | --- | --- | --- |
| Oxidation (PA)   | %        | 75     | --- | --- | --- |

## Diagnosis

We advise that you check the fuel injection system. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

## CONTAMINATION

|                |     |       |     |     |     |
|----------------|-----|-------|-----|-----|-----|
| Soot %         | %   | ■ 0.3 | --- | --- | --- |
| Nitration (PA) | %   | 50    | --- | --- | --- |
| Sulfation (PA) | %   | 61    | --- | --- | --- |
| Glycol         | %   | NEG   | --- | --- | --- |
| Fuel           | %   | ▲ 4.9 | --- | --- | --- |
| Silicon        | ppm | ■ 4   | --- | --- | --- |
| Sodium         | ppm | ■ 3   | --- | --- | --- |
| Potassium      | ppm | ■ 0   | --- | --- | --- |

## WEAR METALS

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Iron       | ppm | ■ 6  | --- | --- | --- |
| Copper     | ppm | ■ 27 | --- | --- | --- |
| Lead       | ppm | ■ 0  | --- | --- | --- |
| Tin        | ppm | ■ <1 | --- | --- | --- |
| Aluminum   | ppm | ■ 2  | --- | --- | --- |
| Chromium   | ppm | ■ <1 | --- | --- | --- |
| Molybdenum | ppm | ■ 34 | --- | --- | --- |
| Nickel     | ppm | ■ 0  | --- | --- | --- |
| Titanium   | ppm | ■ 0  | --- | --- | --- |
| Silver     | ppm | ■ 0  | --- | --- | --- |
| Manganese  | ppm | <1   | --- | --- | --- |
| Vanadium   | ppm | 0    | --- | --- | --- |

## ADDITIVES

|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | ■ 1536 | --- | --- | --- |
| Magnesium  | ppm | ■ 466  | --- | --- | --- |
| Zinc       | ppm | ■ 813  | --- | --- | --- |
| Phosphorus | ppm | 665    | --- | --- | --- |
| Barium     | ppm | ■ 0    | --- | --- | --- |
| Boron      | ppm | ■ 39   | --- | --- | --- |

**Depot:** VP152963

**Unique No:** 10631756

**Signed:** Doug Bogart

**Report Date:** 06 Sep 2023

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## GRAPHS

