

# OIL ANALYSIS REPORT

# VOLVO PENTA

**SALVATORE PALUMBO 507216 VOLVO PENTA 7011417661 - STARBOARD DIESEL ENGINE**

**Sample No:** VPA059600

**Oil Type:** VOLVO PENTA SAE 15W40

## SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA059600   | --- | --- | --- |
| Sample Date   | 10 Nov 2023 | --- | --- | --- |
| Machine Hours | 0           | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | Changed     | --- | --- | --- |
| Sample Status | SEVERE      | --- | --- | --- |

## OIL CONDITION

|                  |          |        |     |     |     |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C     | cSt      | ▲ 10.1 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | ■ 8.8  | --- | --- | --- |
| Oxidation (PA)   | %        | ■ 58   | --- | --- | --- |

## CONTAMINATION

|                |     |       |     |     |     |
|----------------|-----|-------|-----|-----|-----|
| Water          | %   | NEG   | --- | --- | --- |
| Soot %         | %   | ■ 0.3 | --- | --- | --- |
| Nitration (PA) | %   | ■ 55  | --- | --- | --- |
| Sulfation (PA) | %   | ■ 53  | --- | --- | --- |
| Glycol         | %   | NEG   | --- | --- | --- |
| Fuel           | %   | ◆ 9.8 | --- | --- | --- |
| Silicon        | ppm | ■ 8   | --- | --- | --- |
| Sodium         | ppm | ■ 2   | --- | --- | --- |
| Potassium      | ppm | ■ <1  | --- | --- | --- |

## WEAR METALS

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Iron       | ppm | ■ 5  | --- | --- | --- |
| Copper     | ppm | ■ 26 | --- | --- | --- |
| Lead       | ppm | ■ <1 | --- | --- | --- |
| Tin        | ppm | ■ 1  | --- | --- | --- |
| Aluminum   | ppm | ■ 2  | --- | --- | --- |
| Chromium   | ppm | ■ <1 | --- | --- | --- |
| Molybdenum | ppm | ■ 47 | --- | --- | --- |
| Nickel     | ppm | ■ 1  | --- | --- | --- |
| Titanium   | ppm | ■ 0  | --- | --- | --- |
| Silver     | ppm | ■ <1 | --- | --- | --- |
| Manganese  | ppm | ■ <1 | --- | --- | --- |
| Vanadium   | ppm | 0    | --- | --- | --- |

## ADDITIVES

|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | 886    | --- | --- | --- |
| Magnesium  | ppm | ■ 824  | --- | --- | --- |
| Zinc       | ppm | ■ 1059 | --- | --- | --- |
| Phosphorus | ppm | ■ 877  | --- | --- | --- |
| Barium     | ppm | ■ 0    | --- | --- | --- |
| Boron      | ppm | ■ 2    | --- | --- | --- |

### Seaborn Marina Inc.

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### Diagnosis

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

**Depot:** VP543511  
**Unique No:** 10742688  
**Signed:** Sean Felton  
**Report Date:** 20 Nov 2023

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## GRAPHS

