

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

**FRED GUIDRY 43604 NORTHERN LIGHTS 6732-56478 - GENSET**

**Sample No:** VPA055595  
**Oil Type:** VOLVO PENTA SAE 15W40

## SAMPLE INFORMATION

|               |             |             |     |     |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VPA055595   | VPA037664   | --- | --- |
| Sample Date   | 08 Sep 2023 | 16 Sep 2021 | --- | --- |
| Machine Hours | 209         | 148         | --- | --- |
| Oil Hours     | 0           | 0           | --- | --- |
| Oil Changed   | Changed     | N/A         | --- | --- |
| Sample Status | ABNORMAL    | NORMAL      | --- | --- |

## OIL CONDITION

|                  |          |        |        |     |     |
|------------------|----------|--------|--------|-----|-----|
| Visc @ 100°C     | cSt      | ▲ 12.3 | ■ 13.0 | --- | --- |
| Base Number (BN) | mg KOH/g | 9.4    | ---    | --- | --- |
| Oxidation (PA)   | %        | 56     | 61     | --- | --- |

## CONTAMINATION

|                |     |       |       |     |     |
|----------------|-----|-------|-------|-----|-----|
| Soot %         | %   | ■ 0.1 | ■ 0.1 | --- | --- |
| Nitration (PA) | %   | 45    | 47    | --- | --- |
| Sulfation (PA) | %   | 51    | 54    | --- | --- |
| Glycol         | %   | NEG   | NEG   | --- | --- |
| Fuel           | %   | ▲ 6.3 | <1.0  | --- | --- |
| Silicon        | ppm | ■ 6   | ■ 5   | --- | --- |
| Sodium         | ppm | ■ 2   | ■ 2   | --- | --- |
| Potassium      | ppm | ■ 4   | ■ 6   | --- | --- |

## WEAR METALS

|            |     |      |      |     |     |
|------------|-----|------|------|-----|-----|
| Iron       | ppm | ■ 4  | ■ 4  | --- | --- |
| Copper     | ppm | ■ 4  | ■ 6  | --- | --- |
| Lead       | ppm | ■ <1 | ■ <1 | --- | --- |
| Tin        | ppm | ■ <1 | ■ <1 | --- | --- |
| Aluminum   | ppm | ■ 1  | ■ 1  | --- | --- |
| Chromium   | ppm | ■ <1 | ■ <1 | --- | --- |
| Molybdenum | ppm | ■ 55 | ■ 49 | --- | --- |
| Nickel     | ppm | ■ 0  | ■ <1 | --- | --- |
| Titanium   | ppm | <1   | 0    | --- | --- |
| Silver     | ppm | ■ 0  | 0    | --- | --- |
| Manganese  | ppm | ■ <1 | ■ <1 | --- | --- |
| Vanadium   | ppm | <1   | 0    | --- | --- |

## ADDITIVES

|            |     |        |        |     |     |
|------------|-----|--------|--------|-----|-----|
| Calcium    | ppm | ■ 1222 | ■ 1362 | --- | --- |
| Magnesium  | ppm | 999    | ■ 822  | --- | --- |
| Zinc       | ppm | ■ 1301 | ■ 1384 | --- | --- |
| Phosphorus | ppm | ■ 1031 | ■ 1026 | --- | --- |
| Barium     | ppm | ■ 0    | ■ 0    | --- | --- |
| Boron      | ppm | ■ 12   | ■ 38   | --- | --- |

**COASTAL CAROLINA YACHT SALES**  
145 LOCKWOOD BLVD  
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Contact: STEVE VASAS  
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T:  
F:

## Diagnosis

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of fuel present in the oil. No other contaminants were detected in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity.

**Depot:** VP568144  
**Unique No:** 10649617  
**Signed:** Sean Felton  
**Report Date:** 20 Sep 2023

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## GRAPHS

