

# OIL ANALYSIS REPORT



**GREG ELLIS VOLVO PENTA 7008573321 - STARBOARD DIESEL ENGINE**

**Sample No:** VPA057253  
**Oil Type:** VOLVO PENTA SAE 15W40

## SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA057253   | --- | --- | --- |
| Sample Date   | 26 Feb 2024 | --- | --- | --- |
| Machine Hours | 86          | --- | --- | --- |
| Oil Hours     | 86          | --- | --- | --- |
| Oil Changed   | Changed     | --- | --- | --- |
| Sample Status | NORMAL      | --- | --- | --- |

**Galati Yacht Sales LLC**  
 900 S. BAY BLVD., PO Box 862  
 ANNA MARIA, FL  
 US 34216  
 Contact: RICK HERNY  
 rherny@galatiyachts.com  
 T: (727)576-8336  
 F:

## OIL CONDITION

|                  |          |        |     |     |     |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C     | cSt      | █ 13.2 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 8.7  | --- | --- | --- |
| Oxidation (PA)   | %        | 60     | --- | --- | --- |

## CONTAMINATION

|                |     |       |     |     |     |
|----------------|-----|-------|-----|-----|-----|
| Water          | %   | NEG   | --- | --- | --- |
| Soot %         | %   | █ 0.3 | --- | --- | --- |
| Nitration (PA) | %   | 53    | --- | --- | --- |
| Sulfation (PA) | %   | 58    | --- | --- | --- |
| Glycol         | %   | NEG   | --- | --- | --- |
| Fuel           | %   | < 1.0 | --- | --- | --- |
| Silicon        | ppm | █ 29  | --- | --- | --- |
| Sodium         | ppm | █ 3   | --- | --- | --- |
| Potassium      | ppm | █ 2   | --- | --- | --- |

## 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.

## WEAR METALS

|            |     |       |     |     |     |
|------------|-----|-------|-----|-----|-----|
| Iron       | ppm | █ 18  | --- | --- | --- |
| Copper     | ppm | █ 45  | --- | --- | --- |
| Lead       | ppm | █ 0   | --- | --- | --- |
| Tin        | ppm | █ 0   | --- | --- | --- |
| Aluminum   | ppm | █ 6   | --- | --- | --- |
| Chromium   | ppm | █ 1   | --- | --- | --- |
| Molybdenum | ppm | 125   | --- | --- | --- |
| Nickel     | ppm | █ < 1 | --- | --- | --- |
| Titanium   | ppm | █ < 1 | --- | --- | --- |
| Silver     | ppm | █ < 1 | --- | --- | --- |
| Manganese  | ppm | █ < 1 | --- | --- | --- |
| Vanadium   | ppm | < 1   | --- | --- | --- |

## ADDITIVES

|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | █ 1455 | --- | --- | --- |
| Magnesium  | ppm | 546    | --- | --- | --- |
| Zinc       | ppm | 906    | --- | --- | --- |
| Phosphorus | ppm | █ 775  | --- | --- | --- |
| Barium     | ppm | █ 0    | --- | --- | --- |
| Boron      | ppm | 270    | --- | --- | --- |

**Depot:** VP648685  
**Unique No:** 10910348  
**Signed:** Sean Felton  
**Report Date:** 05 Mar 2024

# OIL ANALYSIS REPORT

# VOLVO PENTA

## GRAPHS

