

# OIL ANALYSIS REPORT

# VOLVO PENTA

## PITT STOP 3440 VOLVO PENTA 7011440130 - PORT DIESEL ENGINE

Sample No: VPA049761

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA049761   | --- | --- | --- |
| Sample Date   | 21 Dec 2023 | --- | --- | --- |
| Machine Hours | 581         | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | Changed     | --- | --- | --- |
| Sample Status | NORMAL      | --- | --- | --- |

### GRAND BANKS

450 SW SALEM RD

STUART, FL

US 34994

Contact: ROBERT ANTONA

roberta@gbmarinegroup.com

T: (609)384-5290

F:

### OIL CONDITION

|                  |          |        |     |     |     |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C     | cSt      | █ 12.1 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 8.7  | --- | --- | --- |
| Oxidation (PA)   | %        | 60     | --- | --- | --- |

### CONTAMINATION

|                |     |       |     |     |     |
|----------------|-----|-------|-----|-----|-----|
| Water          | %   | NEG   | --- | --- | --- |
| Soot %         | %   | █ 0.6 | --- | --- | --- |
| Nitration (PA) | %   | 68    | --- | --- | --- |
| Sulfation (PA) | %   | 57    | --- | --- | --- |
| Glycol         | %   | NEG   | --- | --- | --- |
| Fuel           | %   | █ 1.6 | --- | --- | --- |
| Silicon        | ppm | █ 7   | --- | --- | --- |
| Sodium         | ppm | █ 5   | --- | --- | --- |
| Potassium      | ppm | █ 1   | --- | --- | --- |

### WEAR METALS

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Iron       | ppm | █ 17 | --- | --- | --- |
| Copper     | ppm | █ 72 | --- | --- | --- |
| Lead       | ppm | █ 3  | --- | --- | --- |
| Tin        | ppm | █ 2  | --- | --- | --- |
| Aluminum   | ppm | █ 1  | --- | --- | --- |
| Chromium   | ppm | █ <1 | --- | --- | --- |
| Molybdenum | ppm | █ 61 | --- | --- | --- |
| Nickel     | ppm | █ 2  | --- | --- | --- |
| Titanium   | ppm | █ 0  | --- | --- | --- |
| Silver     | ppm | █ 0  | --- | --- | --- |
| Manganese  | ppm | █ <1 | --- | --- | --- |
| Vanadium   | ppm | 0    | --- | --- | --- |

### ADDITIVES

|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | █ 1185 | --- | --- | --- |
| Magnesium  | ppm | █ 964  | --- | --- | --- |
| Zinc       | ppm | █ 1308 | --- | --- | --- |
| Phosphorus | ppm | █ 1119 | --- | --- | --- |
| Barium     | ppm | █ <1   | --- | --- | --- |
| Boron      | ppm | █ 2    | --- | --- | --- |

### Diagnosis

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. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VP531377

Unique No: 10819233

Signed: Angela Borella

Report Date: 10 Jan 2024

# OIL ANALYSIS REPORT



## GRAPHS

