

# OIL ANALYSIS REPORT

# VOLVO PENTA

## STAN MCQUISTON 22224749 - STARBOARD DIESEL ENGINE

Sample No: VPA044374

Oil Type: DIESEL ENGINE OIL SAE 15W40

### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA044374   | --- | --- | --- |
| Sample Date   | 16 Feb 2024 | --- | --- | --- |
| Machine Hours | 856         | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | Changed     | --- | --- | --- |
| Sample Status | NORMAL      | --- | --- | --- |

### NORTH FLORIDA MARINE SYSTEMS

1433-1 ROMNEY ST

JACKSONVILLE, FL

US 32211

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### OIL CONDITION

|                  |          |        |     |     |     |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C     | cSt      | █ 14.7 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 8.4  | --- | --- | --- |
| Oxidation (PA)   | %        | 71     | --- | --- | --- |

### 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.

### CONTAMINATION

|                |     |       |     |     |     |
|----------------|-----|-------|-----|-----|-----|
| Water          | %   | NEG   | --- | --- | --- |
| Soot %         | %   | █ 0.9 | --- | --- | --- |
| Nitration (PA) | %   | 73    | --- | --- | --- |
| Sulfation (PA) | %   | 61    | --- | --- | --- |
| Glycol         | %   | NEG   | --- | --- | --- |
| Fuel           | %   | < 1.0 | --- | --- | --- |
| Silicon        | ppm | █ 6   | --- | --- | --- |
| Sodium         | ppm | █ 2   | --- | --- | --- |
| Potassium      | ppm | █ 7   | --- | --- | --- |

### WEAR METALS

|            |     |       |     |     |     |
|------------|-----|-------|-----|-----|-----|
| Iron       | ppm | █ 40  | --- | --- | --- |
| Copper     | ppm | █ 106 | --- | --- | --- |
| Lead       | ppm | █ 0   | --- | --- | --- |
| Tin        | ppm | █ 0   | --- | --- | --- |
| Aluminum   | ppm | █ 9   | --- | --- | --- |
| Chromium   | ppm | █ < 1 | --- | --- | --- |
| Molybdenum | ppm | █ 19  | --- | --- | --- |
| Nickel     | ppm | █ 3   | --- | --- | --- |
| Titanium   | ppm | █ 0   | --- | --- | --- |
| Silver     | ppm | █ 0   | --- | --- | --- |
| Manganese  | ppm | █ 0   | --- | --- | --- |
| Vanadium   | ppm | 0     | --- | --- | --- |

### ADDITIVES

|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | █ 2467 | --- | --- | --- |
| Magnesium  | ppm | █ 199  | --- | --- | --- |
| Zinc       | ppm | █ 1481 | --- | --- | --- |
| Phosphorus | ppm | █ 1117 | --- | --- | --- |
| Barium     | ppm | █ < 1  | --- | --- | --- |
| Boron      | ppm | █ 150  | --- | --- | --- |

Depot: VP99411958

Unique No: 10888086

Signed: Sean Felton

Report Date: 22 Feb 2024

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## GRAPHS

