

# OIL ANALYSIS REPORT

# VOLVO PENTA

## 3506 OSPREY FISCHER PANDA 2102719 - CENTER GENSET

**Sample No:** VPA056154  
**Oil Type:** SHELL 15W40

### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA056154   | --- | --- | --- |
| Sample Date   | 29 Jan 2024 | --- | --- | --- |
| Machine Hours | 124         | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | Changed     | --- | --- | --- |
| Sample Status | NORMAL      | --- | --- | --- |

### GRAND BANKS

450 SW SALEM RD  
STUART, FL  
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### OIL CONDITION

|                  |          |        |     |     |     |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C     | cSt      | █ 13.7 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | 9.0    | --- | --- | --- |
| Oxidation (PA)   | %        | 59     | --- | --- | --- |

### CONTAMINATION

|                |     |       |     |     |     |
|----------------|-----|-------|-----|-----|-----|
| Water          | %   | NEG   | --- | --- | --- |
| Soot %         | %   | █ 0.1 | --- | --- | --- |
| Nitration (PA) | %   | 45    | --- | --- | --- |
| Sulfation (PA) | %   | 52    | --- | --- | --- |
| Glycol         | %   | NEG   | --- | --- | --- |
| Fuel           | %   | <1.0  | --- | --- | --- |
| Silicon        | ppm | █ 4   | --- | --- | --- |
| Sodium         | ppm | █ <1  | --- | --- | --- |
| Potassium      | ppm | █ 7   | --- | --- | --- |

### WEAR METALS

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Iron       | ppm | █ 9  | --- | --- | --- |
| Copper     | ppm | █ 2  | --- | --- | --- |
| Lead       | ppm | █ 0  | --- | --- | --- |
| Tin        | ppm | █ 0  | --- | --- | --- |
| Aluminum   | ppm | █ 2  | --- | --- | --- |
| Chromium   | ppm | █ <1 | --- | --- | --- |
| Molybdenum | ppm | █ 12 | --- | --- | --- |
| Nickel     | ppm | █ 0  | --- | --- | --- |
| Titanium   | ppm | <1   | --- | --- | --- |
| Silver     | ppm | █ 0  | --- | --- | --- |
| Manganese  | ppm | █ 0  | --- | --- | --- |
| Vanadium   | ppm | <1   | --- | --- | --- |

### ADDITIVES

|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | █ 2332 | --- | --- | --- |
| Magnesium  | ppm | █ 46   | --- | --- | --- |
| Zinc       | ppm | █ 1069 | --- | --- | --- |
| Phosphorus | ppm | █ 922  | --- | --- | --- |
| Barium     | ppm | █ 0    | --- | --- | --- |
| Boron      | ppm | █ 180  | --- | --- | --- |

### 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.

**Depot:** VP531377  
**Unique No:** 10874255  
**Signed:** Sean Felton  
**Report Date:** 14 Feb 2024

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## GRAPHS

