

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## VOLVO PENTA 2006022715 - STARBOARD DIESEL ENGINE

Sample No: VPA056815

Oil Type: NOT GIVEN

### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA056815   | --- | --- | --- |
| Sample Date   | 11 Oct 2023 | --- | --- | --- |
| Machine Hours | 885         | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | N/A         | --- | --- | --- |
| Sample Status | NORMAL      | --- | --- | --- |

### JON DIESEL LLC

4915 241ST E  
MYAKKA CITY, FL  
US 34251

Contact: Jon Marquette  
jondieselllc@gmail.com

T: (941)780-1330

F:

### OIL CONDITION

|                  |          |        |     |     |     |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C     | cSt      | █ 13.8 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 9.4  | --- | --- | --- |
| Oxidation (PA)   | %        | 51     | --- | --- | --- |

### Diagnosis

No corrective action is recommended at this time. 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 suitable for further service.

### CONTAMINATION

|                |     |       |     |     |     |
|----------------|-----|-------|-----|-----|-----|
| Soot %         | %   | █ 0.1 | --- | --- | --- |
| Nitration (PA) | %   | 44    | --- | --- | --- |
| Sulfation (PA) | %   | 49    | --- | --- | --- |
| Glycol         | %   | NEG   | --- | --- | --- |
| Fuel           | %   | <1.0  | --- | --- | --- |
| Silicon        | ppm | █ 4   | --- | --- | --- |
| Sodium         | ppm | █ 1   | --- | --- | --- |
| Potassium      | ppm | █ 4   | --- | --- | --- |

### WEAR METALS

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Iron       | ppm | █ 6  | --- | --- | --- |
| Copper     | ppm | █ 2  | --- | --- | --- |
| Lead       | ppm | █ <1 | --- | --- | --- |
| Tin        | ppm | █ <1 | --- | --- | --- |
| Aluminum   | ppm | █ 1  | --- | --- | --- |
| Chromium   | ppm | █ <1 | --- | --- | --- |
| Molybdenum | ppm | █ 53 | --- | --- | --- |
| Nickel     | ppm | █ <1 | --- | --- | --- |
| Titanium   | ppm | █ 3  | --- | --- | --- |
| Silver     | ppm | █ 0  | --- | --- | --- |
| Manganese  | ppm | <1   | --- | --- | --- |
| Vanadium   | ppm | <1   | --- | --- | --- |

### ADDITIVES

|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | █ 1137 | --- | --- | --- |
| Magnesium  | ppm | █ 926  | --- | --- | --- |
| Zinc       | ppm | █ 1176 | --- | --- | --- |
| Phosphorus | ppm | █ 973  | --- | --- | --- |
| Barium     | ppm | █ 12   | --- | --- | --- |
| Boron      | ppm | █ 17   | --- | --- | --- |

Depot: VPJONMYA

Unique No: 10695904

Signed: Doug Bogart

Report Date: 17 Oct 2023

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## GRAPHS

