

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## MYLES JB VOLVO PENTA 7011485280 - PORT DIESEL ENGINE

Sample No: VPA057121

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

### SAMPLE INFORMATION

|               |             |             |     |     |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VPA057121   | VPA044079   | --- | --- |
| Sample Date   | 03 Dec 2023 | 05 Nov 2022 | --- | --- |
| Machine Hours | 225         | 193         | --- | --- |
| Oil Hours     | 0           | 0           | --- | --- |
| Oil Changed   | Changed     | Changed     | --- | --- |
| Sample Status | NORMAL      | ATTENTION   | --- | --- |

### Point Judith Marina

360 Gooseberry Road

WAKEFIELD, RI

US 02879

Contact: MATT ST. ANGELO

service@pjmarina.com;canastasio@wearcheckusa.com

T: (401)789-7189

F: (401)783-5350

### OIL CONDITION

|                  |          |        |        |     |     |
|------------------|----------|--------|--------|-----|-----|
| Visc @ 100°C     | cSt      | █ 13.5 | ▲ 10.9 | --- | --- |
| Base Number (BN) | mg KOH/g | █ 8.3  | █ 8.8  | --- | --- |
| Oxidation (PA)   | %        | 63     | 62     | --- | --- |

### CONTAMINATION

|                |     |       |       |     |     |
|----------------|-----|-------|-------|-----|-----|
| Water          | %   | NEG   | NEG   | --- | --- |
| Soot %         | %   | █ 0.2 | █ 0.6 | --- | --- |
| Nitration (PA) | %   | 48    | 63    | --- | --- |
| Sulfation (PA) | %   | 55    | 56    | --- | --- |
| Glycol         | %   | NEG   | NEG   | --- | --- |
| Fuel           | %   | <1.0  | █ 1.5 | --- | --- |
| Silicon        | ppm | █ 13  | █ 35  | --- | --- |
| Sodium         | ppm | █ 9   | █ 3   | --- | --- |
| Potassium      | ppm | █ 33  | █ 4   | --- | --- |

### 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. 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 | █ 97 | █ 28  | --- | --- |
| Copper     | ppm | █ 27 | ▲ 132 | --- | --- |
| Lead       | ppm | █ 0  | █ 3   | --- | --- |
| Tin        | ppm | █ 2  | █ 4   | --- | --- |
| Aluminum   | ppm | █ 18 | █ 2   | --- | --- |
| Chromium   | ppm | █ 2  | █ 2   | --- | --- |
| Molybdenum | ppm | █ 47 | █ 8   | --- | --- |
| Nickel     | ppm | █ <1 | █ 3   | --- | --- |
| Titanium   | ppm | █ 0  | █ 0   | --- | --- |
| Silver     | ppm | █ 0  | █ 2   | --- | --- |
| Manganese  | ppm | █ 10 | █ 2   | --- | --- |
| Vanadium   | ppm | 0    | <1    | --- | --- |

### ADDITIVES

|            |     |        |        |     |     |
|------------|-----|--------|--------|-----|-----|
| Calcium    | ppm | █ 1799 | █ 2452 | --- | --- |
| Magnesium  | ppm | █ 537  | 30     | --- | --- |
| Zinc       | ppm | █ 955  | █ 1165 | --- | --- |
| Phosphorus | ppm | █ 768  | █ 959  | --- | --- |
| Barium     | ppm | █ 0    | █ 0    | --- | --- |
| Boron      | ppm | █ 27   | █ 27   | --- | --- |

Depot: VP153811

Unique No: 10777223

Signed: Angela Borella

Report Date: 08 Dec 2023

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## GRAPHS

