

# OIL ANALYSIS REPORT

# VOLVO PENTA

## MANUEL MARQUEZ VOLVO PENTA A804454 - PORT DIESEL ENGINE

Sample No: VPA021404

Oil Type: {unknown}

### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA021404   | --- | --- | --- |
| Sample Date   | 30 May 2024 | --- | --- | --- |
| Machine Hours | 206         | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | N/A         | --- | --- | --- |
| Sample Status | NORMAL      | --- | --- | --- |

**BOAT TECH**  
PO BOX 2183  
FAJARDO, PR  
US 00738  
Contact: LILIANA CHALA  
boattechperf@gmail.com  
T: 7(87 )246-0770  
F:

### OIL CONDITION

|                  |          |        |     |     |     |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C     | cSt      | █ 14.7 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 9.9  | --- | --- | --- |
| Oxidation (PA)   | %        | 52     | --- | --- | --- |

### 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 %         | %   | █ 0.1 | --- | --- | --- |
| Nitration (PA) | %   | 46    | --- | --- | --- |
| Sulfation (PA) | %   | 50    | --- | --- | --- |
| Glycol         | %   | NEG   | --- | --- | --- |
| Fuel           | %   | < 1.0 | --- | --- | --- |
| Silicon        | ppm | █ 6   | --- | --- | --- |
| Sodium         | ppm | █ 2   | --- | --- | --- |
| Potassium      | ppm | █ 2   | --- | --- | --- |

### WEAR METALS

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Iron       | ppm | █ 19 | --- | --- | --- |
| Copper     | ppm | █ 4  | --- | --- | --- |
| Lead       | ppm | █ 3  | --- | --- | --- |
| Tin        | ppm | █ 1  | --- | --- | --- |
| Aluminum   | ppm | █ 4  | --- | --- | --- |
| Chromium   | ppm | █ <1 | --- | --- | --- |
| Molybdenum | ppm | █ 74 | --- | --- | --- |
| Nickel     | ppm | █ <1 | --- | --- | --- |
| Titanium   | ppm | █ <1 | --- | --- | --- |
| Silver     | ppm | █ 0  | --- | --- | --- |
| Manganese  | ppm | < 1  | --- | --- | --- |
| Vanadium   | ppm | < 1  | --- | --- | --- |

### ADDITIVES

|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | █ 1186 | --- | --- | --- |
| Magnesium  | ppm | █ 1028 | --- | --- | --- |
| Zinc       | ppm | █ 1277 | --- | --- | --- |
| Phosphorus | ppm | █ 1293 | --- | --- | --- |
| Barium     | ppm | █ 0    | --- | --- | --- |
| Boron      | ppm | █ 65   | --- | --- | --- |

**Depot:** VP1309104  
**Unique No:** 11069651  
**Signed:** Angela Borella  
**Report Date:** 11 Jun 2024

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## GRAPHS

