

# OIL ANALYSIS REPORT

# VOLVO PENTA

**CYS 6689 VOLVO PENTA D6-380A-G A1133507 - PORT DIESEL ENGINE**

**Sample No:** VPA060952

**Oil Type:** DIESEL ENGINE OIL SAE 40

## SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA060952   | --- | --- | --- |
| Sample Date   | 07 May 2024 | --- | --- | --- |
| Machine Hours | 444         | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | Not Changd  | --- | --- | --- |
| Sample Status | NORMAL      | --- | --- | --- |

**Northwest Diesel Power**  
1325 ROEDER AVE SUITE 103  
BELLINGHAM, WA  
US 98225  
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## OIL CONDITION

|                  |          |        |     |     |     |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C     | cSt      | █ 13.1 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 9.8  | --- | --- | --- |
| Oxidation (PA)   | %        | 53     | --- | --- | --- |

## CONTAMINATION

|                |     |       |     |     |     |
|----------------|-----|-------|-----|-----|-----|
| Water          | %   | NEG   | --- | --- | --- |
| Soot %         | %   | █ 0.1 | --- | --- | --- |
| Nitration (PA) | %   | 39    | --- | --- | --- |
| Sulfation (PA) | %   | 49    | --- | --- | --- |
| Glycol         | %   | NEG   | --- | --- | --- |
| Fuel           | %   | <1.0  | --- | --- | --- |
| Silicon        | ppm | █ 4   | --- | --- | --- |
| Sodium         | ppm | █ <1  | --- | --- | --- |
| Potassium      | ppm | █ <1  | --- | --- | --- |

## 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.

## WEAR METALS

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Iron       | ppm | █ 5  | --- | --- | --- |
| Copper     | ppm | █ 1  | --- | --- | --- |
| Lead       | ppm | █ <1 | --- | --- | --- |
| Tin        | ppm | █ 0  | --- | --- | --- |
| Aluminum   | ppm | █ 1  | --- | --- | --- |
| Chromium   | ppm | █ 0  | --- | --- | --- |
| Molybdenum | ppm | █ 63 | --- | --- | --- |
| Nickel     | ppm | █ <1 | --- | --- | --- |
| Titanium   | ppm | █ 0  | --- | --- | --- |
| Silver     | ppm | █ 0  | --- | --- | --- |
| Manganese  | ppm | █ <1 | --- | --- | --- |
| Vanadium   | ppm | 0    | --- | --- | --- |

## ADDITIVES

|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | █ 1165 | --- | --- | --- |
| Magnesium  | ppm | █ 1045 | --- | --- | --- |
| Zinc       | ppm | █ 1407 | --- | --- | --- |
| Phosphorus | ppm | █ 1161 | --- | --- | --- |
| Barium     | ppm | █ 0    | --- | --- | --- |
| Boron      | ppm | █ 0    | --- | --- | --- |

**Depot:** VP759009  
**Unique No:** 11021115  
**Signed:** Don Baldrige  
**Report Date:** 13 May 2024

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## GRAPHS

