

# OIL ANALYSIS REPORT



## JOHN BRADEN GREG E. VOLVO PENTA A895591 - PORT DIESEL ENGINE

**Sample No:** VPA057495  
**Oil Type:** VOLVO PENTA SAE 15W40

### SAMPLE INFORMATION

|               |                    |             |     |     |
|---------------|--------------------|-------------|-----|-----|
| Sample Number | <b>VPA057495</b>   | VPA056270   | --- | --- |
| Sample Date   | <b>19 Jun 2024</b> | 21 Jun 2023 | --- | --- |
| Machine Hours | <b>334</b>         | 317         | --- | --- |
| Oil Hours     | <b>0</b>           | 100         | --- | --- |
| Oil Changed   | <b>Changed</b>     | Changed     | --- | --- |
| Sample Status | <b>NORMAL</b>      | NORMAL      | --- | --- |

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### OIL CONDITION

|                  |          |             |      |     |     |
|------------------|----------|-------------|------|-----|-----|
| Visc @ 100°C     | cSt      | <b>13.5</b> | 13.3 | --- | --- |
| Base Number (BN) | mg KOH/g | <b>10.2</b> | 10.3 | --- | --- |
| Oxidation (PA)   | %        | <b>54</b>   | 60   | --- | --- |

### 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          | %   | <b>NEG</b>     | NEG  | --- | --- |
| Soot %         | %   | <b>0.1</b>     | 0.2  | --- | --- |
| Nitration (PA) | %   | <b>42</b>      | 54   | --- | --- |
| Sulfation (PA) | %   | <b>49</b>      | 54   | --- | --- |
| Glycol         | %   | <b>NEG</b>     | NEG  | --- | --- |
| Fuel           | %   | <b>&lt;1.0</b> | <1.0 | --- | --- |
| Silicon        | ppm | <b>3</b>       | 5    | --- | --- |
| Sodium         | ppm | <b>2</b>       | 2    | --- | --- |
| Potassium      | ppm | <b>&lt;1</b>   | <1   | --- | --- |

### WEAR METALS

|            |     |              |    |     |     |
|------------|-----|--------------|----|-----|-----|
| Iron       | ppm | <b>8</b>     | 22 | --- | --- |
| Copper     | ppm | <b>2</b>     | 7  | --- | --- |
| Lead       | ppm | <b>0</b>     | 0  | --- | --- |
| Tin        | ppm | <b>0</b>     | <1 | --- | --- |
| Aluminum   | ppm | <b>2</b>     | 2  | --- | --- |
| Chromium   | ppm | <b>&lt;1</b> | <1 | --- | --- |
| Molybdenum | ppm | <b>54</b>    | 60 | --- | --- |
| Nickel     | ppm | <b>0</b>     | 1  | --- | --- |
| Titanium   | ppm | <b>0</b>     | 0  | --- | --- |
| Silver     | ppm | <b>0</b>     | 0  | --- | --- |
| Manganese  | ppm | <b>0</b>     | <1 | --- | --- |
| Vanadium   | ppm | <b>0</b>     | 0  | --- | --- |

### ADDITIVES

|            |     |             |      |     |     |
|------------|-----|-------------|------|-----|-----|
| Calcium    | ppm | <b>976</b>  | 1131 | --- | --- |
| Magnesium  | ppm | <b>920</b>  | 947  | --- | --- |
| Zinc       | ppm | <b>1189</b> | 1234 | --- | --- |
| Phosphorus | ppm | <b>1002</b> | 1017 | --- | --- |
| Barium     | ppm | <b>0</b>    | 0    | --- | --- |
| Boron      | ppm | <b>2</b>    | 14   | --- | --- |

**Depot:** VP648685  
**Unique No:** 11110435  
**Signed:** Don Baldrige  
**Report Date:** 05 Jul 2024

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# VOLVO PENTA

## GRAPHS

