

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## SEAQUILL 10072 74117190 - PORT DIESEL ENGINE

Sample No: VPA047890

Oil Type: SHELL ROTELLA T 15W40

### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VPA047890</b>   | VPA025068   | VPA034886   | VPA027094   |
| Sample Date   | <b>19 Oct 2023</b> | 29 Sep 2022 | 29 Sep 2020 | 10 Oct 2019 |
| Machine Hours | <b>834</b>         | 746         | 326         | 344         |
| Oil Hours     | <b>88</b>          | 0           | 0           | 0           |
| Oil Changed   | <b>Changed</b>     | Changed     | N/A         | N/A         |
| Sample Status | <b>NORMAL</b>      | NORMAL      | NORMAL      | NORMAL      |

### The Talaria Company

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### OIL CONDITION

|                  |          |             |      |      |      |
|------------------|----------|-------------|------|------|------|
| Visc @ 100°C     | cSt      | <b>14.9</b> | 15.0 | 14.4 | 14.8 |
| Base Number (BN) | mg KOH/g | <b>6.6</b>  | 8.5  | ---  | ---  |
| Oxidation (PA)   | %        | <b>69</b>   | 83   | 73   | 63   |

### CONTAMINATION

|                |     |                |      |      |      |
|----------------|-----|----------------|------|------|------|
| Soot %         | %   | <b>1.4</b>     | 2    | 0.5  | 0.4  |
| Nitration (PA) | %   | <b>78</b>      | 100  | 66   | 55   |
| Sulfation (PA) | %   | <b>63</b>      | 75   | 61   | 56   |
| Glycol         | %   | <b>NEG</b>     | NEG  | NEG  | NEG  |
| Fuel           | %   | <b>&lt;1.0</b> | <1.0 | <1.0 | <1.0 |
| Silicon        | ppm | <b>10</b>      | 14   | 8    | 7    |
| Sodium         | ppm | <b>8</b>       | 6    | 4    | 3    |
| Potassium      | ppm | <b>6</b>       | 3    | 3    | 3    |

### WEAR METALS

|            |     |              |     |    |    |
|------------|-----|--------------|-----|----|----|
| Iron       | ppm | <b>42</b>    | 56  | 24 | 13 |
| Copper     | ppm | <b>67</b>    | 110 | 24 | 14 |
| Lead       | ppm | <b>0</b>     | 12  | <1 | 0  |
| Tin        | ppm | <b>0</b>     | <1  | <1 | <1 |
| Aluminum   | ppm | <b>3</b>     | 4   | 0  | <1 |
| Chromium   | ppm | <b>2</b>     | 2   | 1  | <1 |
| Molybdenum | ppm | <b>13</b>    | 33  | 37 | 28 |
| Nickel     | ppm | <b>1</b>     | 2   | <1 | <1 |
| Titanium   | ppm | <b>&lt;1</b> | <1  | <1 | 0  |
| Silver     | ppm | <b>&lt;1</b> | 0   | <1 | <1 |
| Manganese  | ppm | <b>&lt;1</b> | 1   | <1 | 1  |
| Vanadium   | ppm | <b>&lt;1</b> | <1  | 0  | 0  |

### ADDITIVES

|            |     |             |      |      |      |
|------------|-----|-------------|------|------|------|
| Calcium    | ppm | <b>2080</b> | 1796 | 1723 | 1530 |
| Magnesium  | ppm | <b>232</b>  | 518  | 443  | 384  |
| Zinc       | ppm | <b>1345</b> | 1271 | 1164 | 956  |
| Phosphorus | ppm | <b>1026</b> | 1030 | 1003 | 866  |
| Barium     | ppm | <b>0</b>    | 0    | <1   | <1   |
| Boron      | ppm | <b>73</b>   | 19   | 84   | 74   |

### 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.

Depot: VP592286

Unique No: 10722488

Signed: Sean Felton

Report Date: 01 Nov 2023

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## GRAPHS

