

# OIL ANALYSIS REPORT

# VOLVO PENTA

## LACHMAN VOLVO PENTA 3950001943 - PORT IPS

Sample No: VPA050664

Oil Type: VOLVO API GL-5 SAE 75W90

### SAMPLE INFORMATION

|               |             |             |     |     |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VPA050664   | VPA038144   | --- | --- |
| Sample Date   | 06 Sep 2023 | 03 Jan 2023 | --- | --- |
| Machine Hours | 578         | 0           | --- | --- |
| Oil Hours     | 0           | 0           | --- | --- |
| Oil Changed   | N/A         | Not Changd  | --- | --- |
| Sample Status | NORMAL      | NORMAL      | --- | --- |

### Outstanding Marine

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GALENA, MD  
US 21635  
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T:  
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### OIL CONDITION

|             |     |     |     |     |     |
|-------------|-----|-----|-----|-----|-----|
| Visc @ 40°C | cSt | 104 | 105 | --- | --- |
|-------------|-----|-----|-----|-----|-----|

### CONTAMINATION

|           |     |    |   |     |     |
|-----------|-----|----|---|-----|-----|
| Silicon   | ppm | 2  | 2 | --- | --- |
| Sodium    | ppm | 3  | 0 | --- | --- |
| Potassium | ppm | <1 | 1 | --- | --- |

### Diagnosis

No corrective action is recommended at this time. 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 condition of the oil is acceptable for the time in service.

### WEAR METALS

|            |     |    |    |     |     |
|------------|-----|----|----|-----|-----|
| PQ         |     | 16 | 12 | --- | --- |
| Iron       | ppm | 36 | 30 | --- | --- |
| Copper     | ppm | 4  | 3  | --- | --- |
| Lead       | ppm | 0  | <1 | --- | --- |
| Tin        | ppm | 0  | 0  | --- | --- |
| Aluminum   | ppm | <1 | <1 | --- | --- |
| Chromium   | ppm | <1 | <1 | --- | --- |
| Molybdenum | ppm | 0  | <1 | --- | --- |
| Nickel     | ppm | 0  | 0  | --- | --- |
| Titanium   | ppm | 0  | 0  | --- | --- |
| Silver     | ppm | 0  | 0  | --- | --- |
| Manganese  | ppm | 1  | <1 | --- | --- |
| Vanadium   | ppm | 0  | 0  | --- | --- |

### ADDITIVES

|            |     |      |      |     |     |
|------------|-----|------|------|-----|-----|
| Calcium    | ppm | 18   | 8    | --- | --- |
| Magnesium  | ppm | 23   | 14   | --- | --- |
| Zinc       | ppm | 27   | 7    | --- | --- |
| Phosphorus | ppm | 1361 | 1319 | --- | --- |
| Barium     | ppm | 0    | 0    | --- | --- |
| Boron      | ppm | 334  | 306  | --- | --- |

Depot: VP153685  
Unique No: 10645493  
Signed: Doug Bogart  
Report Date: 14 Sep 2023

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## GRAPHS

