



# VOLVO PENTA

## OIL ANALYSIS REPORT

|                 |               |
|-----------------|---------------|
| WEAR            | <b>NORMAL</b> |
| CONTAMINATION   | <b>NORMAL</b> |
| FLUID CONDITION | <b>NORMAL</b> |

Area  
**TIFFINE TOLLEN [SAM]**  
Machine Id  
**VOLVO PENTA 3950006011**  
Component  
**Port IPS**  
Fluid  
**VOLVO PENTA GL-5 SAE 75W90 (6 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number  |     | Client Info |           | <b>VPA060409</b>   | VPA047644   | ---      |
| Sample Date    |     | Client Info |           | <b>22 Feb 2024</b> | 13 Feb 2023 | ---      |
| Machine Age    | hrs | Client Info |           | <b>688</b>         | 586         | ---      |
| Oil Age        | hrs | Client Info |           | <b>102</b>         | 0           | ---      |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | ---      |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | N/A         | ---      |
| Filter Changed |     | Client Info |           | <b>Changed</b>     | N/A         | ---      |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | ---      |

### WEAR

All component wear rates are normal.

|              |        |             |      |              |      |     |
|--------------|--------|-------------|------|--------------|------|-----|
| PQ           |        | ASTM D8184  |      | <b>10</b>    | 16   | --- |
| Iron         | ppm    | ASTM D5185m | >200 | <b>18</b>    | 17   | --- |
| Chromium     | ppm    | ASTM D5185m | >10  | <b>&lt;1</b> | 0    | --- |
| Nickel       | ppm    | ASTM D5185m | >10  | <b>&lt;1</b> | 0    | --- |
| Titanium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | --- |
| Silver       | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | --- |
| Aluminum     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | <1   | --- |
| Lead         | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | --- |
| Copper       | ppm    | ASTM D5185m |      | <b>2</b>     | 3    | --- |
| Tin          | ppm    | ASTM D5185m |      | <b>&lt;1</b> | 0    | --- |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | --- |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | --- |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | --- |

### CONTAMINATION

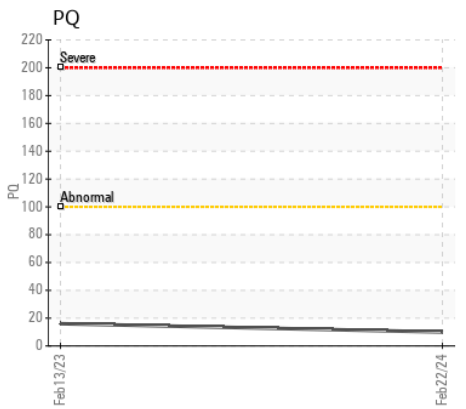
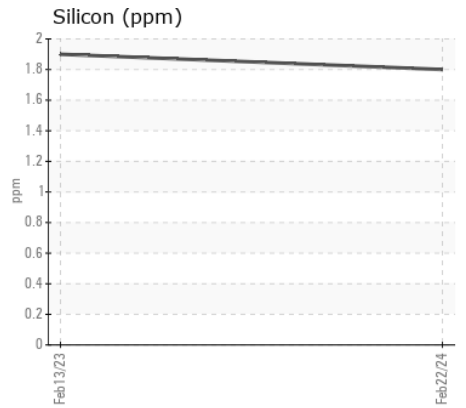
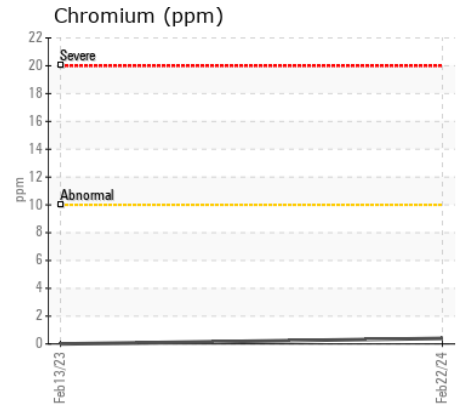
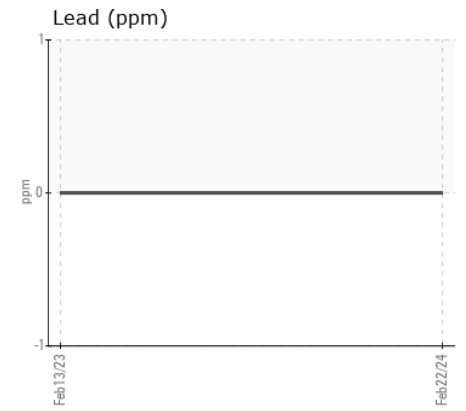
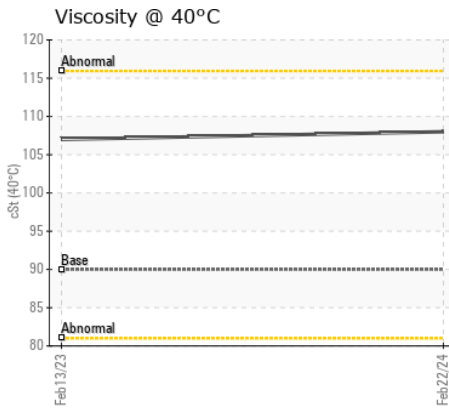
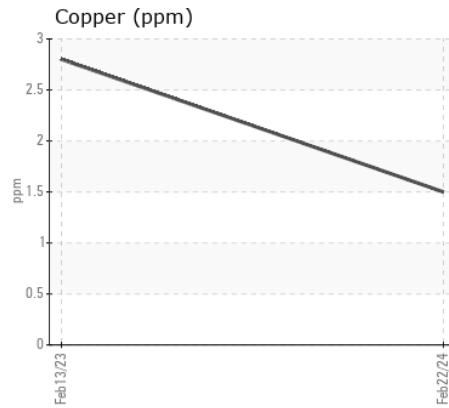
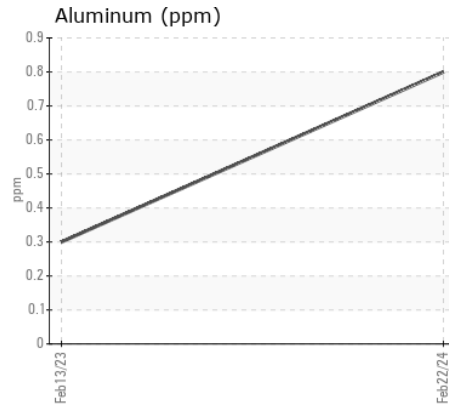
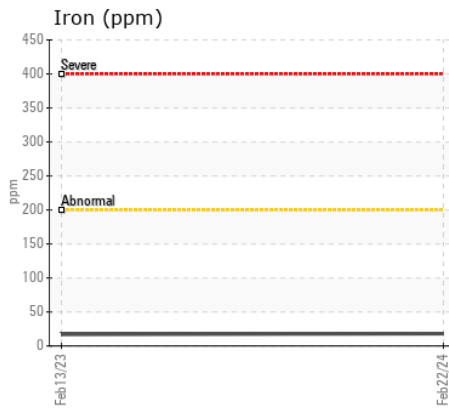
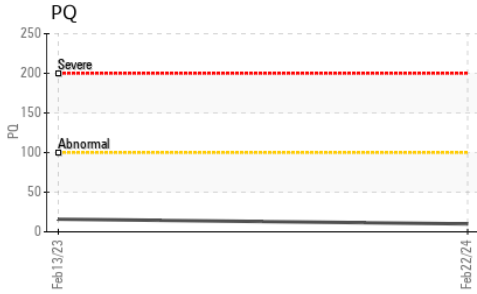
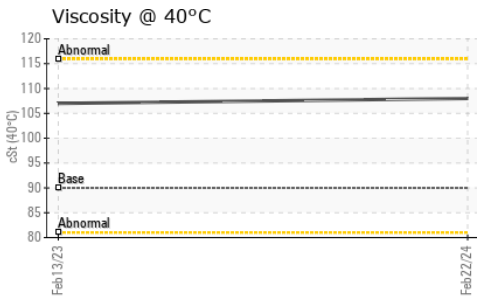
There is no indication of any contamination in the oil.

|                  |        |             |       |              |       |     |
|------------------|--------|-------------|-------|--------------|-------|-----|
| Silicon          | ppm    | ASTM D5185m |       | <b>2</b>     | 2     | --- |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>&lt;1</b> | 0     | --- |
| Water            |        | WC Method   | >0.2  | <b>NEG</b>   | NEG   | --- |
| Silt             | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | --- |
| Debris           | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | --- |
| Sand/Dirt        | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | --- |
| Appearance       | scalar | *Visual     | NORML | <b>NORML</b> | NORML | --- |
| Odor             | scalar | *Visual     | NORML | <b>NORML</b> | NORML | --- |
| Emulsified Water | scalar | *Visual     | >0.2  | <b>NEG</b>   | NEG   | --- |

### FLUID CONDITION

The condition of the oil is acceptable for the time in service.

|             |     |             |      |              |       |     |
|-------------|-----|-------------|------|--------------|-------|-----|
| Sodium      | ppm | ASTM D5185m |      | <b>&lt;1</b> | 1     | --- |
| Boron       | ppm | ASTM D5185m |      | <b>347</b>   | 337   | --- |
| Barium      | ppm | ASTM D5185m |      | <b>0</b>     | 0     | --- |
| Molybdenum  | ppm | ASTM D5185m |      | <b>&lt;1</b> | 0     | --- |
| Manganese   | ppm | ASTM D5185m |      | <b>&lt;1</b> | <1    | --- |
| Magnesium   | ppm | ASTM D5185m |      | <b>8</b>     | 37    | --- |
| Calcium     | ppm | ASTM D5185m |      | <b>17</b>    | 4     | --- |
| Phosphorus  | ppm | ASTM D5185m |      | <b>1345</b>  | 1210  | --- |
| Zinc        | ppm | ASTM D5185m |      | <b>7</b>     | 3     | --- |
| Sulfur      | ppm | ASTM D5185m |      | <b>27916</b> | 23498 | --- |
| Visc @ 40°C | cSt | ASTM D445   | 90.0 | <b>108</b>   | 107   | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VPA060409 **Received** : 28 Feb 2024  
**Lab Number** : 06103324 **Tested** : 01 Mar 2024  
**Unique Number** : 10901554 **Diagnosed** : 01 Mar 2024 - Sean Felton  
**Test Package** : MOB 1 ( Additional Tests: PQ )

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To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)