



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[S50601799 IAA BAY PT]**  
Machine Id  
**VOLVO L90H 625920**  
Component  
**Front Axle**  
Fluid  
**VOLVO WET BRAKE TRANSAXLE OIL (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number  |     | Client Info |           | <b>VCP441501</b>   | VCP340503   | ---      |
| Sample Date    |     | Client Info |           | <b>16 Feb 2024</b> | 02 Feb 2023 | ---      |
| Machine Age    | hrs | Client Info |           | <b>3995</b>        | 2243        | ---      |
| Oil Age        | hrs | Client Info |           | <b>0</b>           | 0           | ---      |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | ---      |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | Changed     | ---      |
| Filter Changed |     | Client Info |           | <b>Changed</b>     | Changed     | ---      |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | ---      |

### WEAR

All component wear rates are normal.

|              |        |             |      |              |       |     |
|--------------|--------|-------------|------|--------------|-------|-----|
| Iron         | ppm    | ASTM D5185m | >500 | <b>36</b>    | 45    | --- |
| Chromium     | ppm    | ASTM D5185m | >20  | <b>1</b>     | 2     | --- |
| Nickel       | ppm    | ASTM D5185m | >10  | <b>0</b>     | <1    | --- |
| Titanium     | ppm    | ASTM D5185m |      | <b>0</b>     | <1    | --- |
| Silver       | ppm    | ASTM D5185m |      | <b>0</b>     | 0     | --- |
| Aluminum     | ppm    | ASTM D5185m | >30  | <b>1</b>     | 0     | --- |
| Lead         | ppm    | ASTM D5185m | >50  | <b>0</b>     | 1     | --- |
| Copper       | ppm    | ASTM D5185m | >120 | <b>20</b>    | 22    | --- |
| Tin          | ppm    | ASTM D5185m | >20  | <b>&lt;1</b> | <1    | --- |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0     | --- |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | MODER | --- |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE  | --- |

### CONTAMINATION

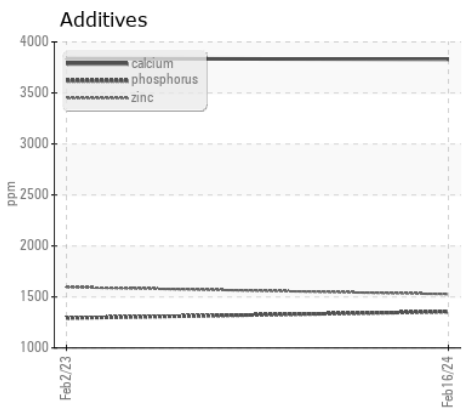
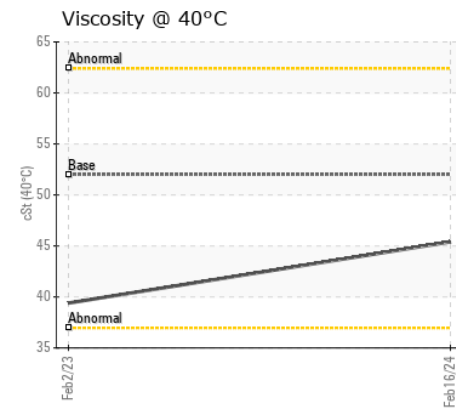
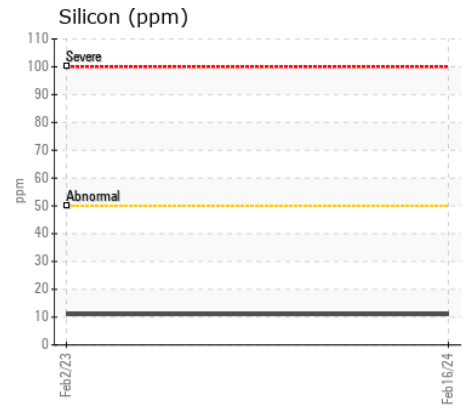
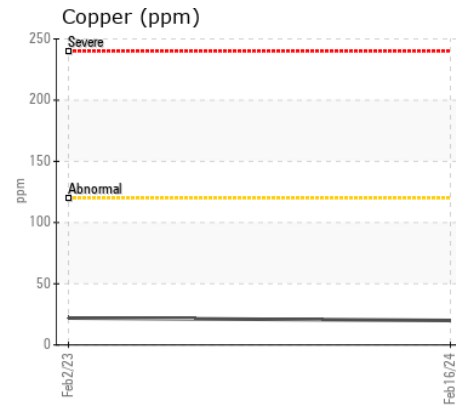
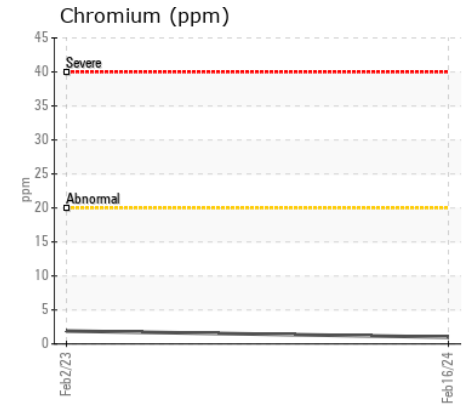
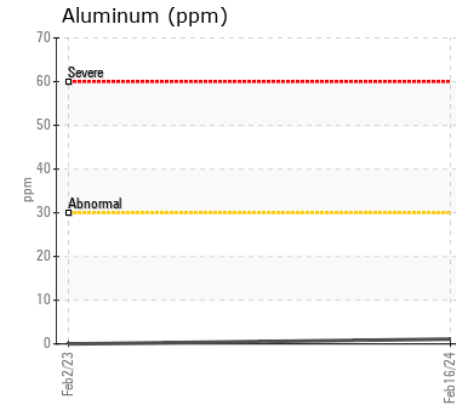
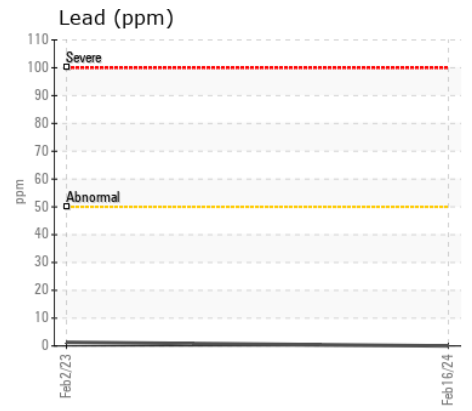
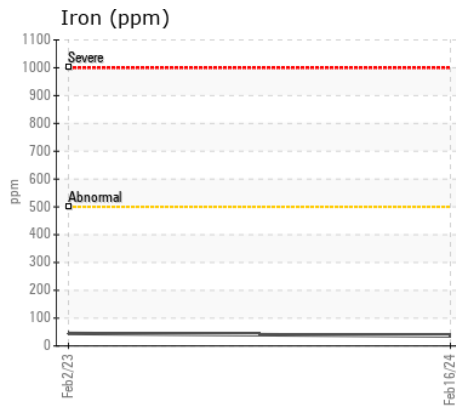
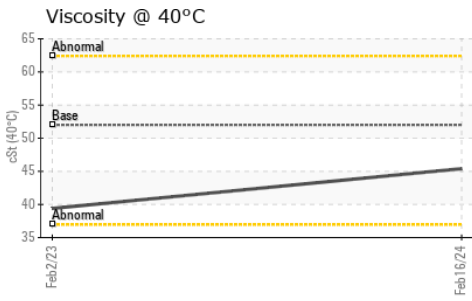
There is no indication of any contamination in the oil.

|                  |        |             |       |              |       |     |
|------------------|--------|-------------|-------|--------------|-------|-----|
| Silicon          | ppm    | ASTM D5185m | >50   | <b>11</b>    | 11    | --- |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>2</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>0</b>    | 9    | --- |
| Boron       | ppm | ASTM D5185m | 100  | <b>131</b>  | 129  | --- |
| Barium      | ppm | ASTM D5185m | 0    | <b>0</b>    | 0    | --- |
| Molybdenum  | ppm | ASTM D5185m | 0    | <b>8</b>    | 4    | --- |
| Manganese   | ppm | ASTM D5185m |      | <b>3</b>    | 4    | --- |
| Magnesium   | ppm | ASTM D5185m | 0    | <b>84</b>   | 14   | --- |
| Calcium     | ppm | ASTM D5185m | 3800 | <b>3830</b> | 3837 | --- |
| Phosphorus  | ppm | ASTM D5185m | 1200 | <b>1355</b> | 1293 | --- |
| Zinc        | ppm | ASTM D5185m | 1500 | <b>1527</b> | 1596 | --- |
| Sulfur      | ppm | ASTM D5185m | 6500 | <b>4084</b> | 4288 | --- |
| Visc @ 40°C | cSt | ASTM D445   | 52.0 | <b>45.4</b> | 39.4 | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP441501  
**Lab Number** : 06098018  
**Unique Number** : 10896248  
**Test Package** : MOBCE

**Received** : 22 Feb 2024  
**Tested** : 23 Feb 2024  
**Diagnosed** : 23 Feb 2024 - Wes Davis

**VCES- VOLVO CONSTRUCTION EQUIPMENT**  
 1944 MARINA BLVD  
 SAN LEANDRO, CA  
 US 94577  
 Contact: JOHN BUDESILICH  
 john.budesilich@vcesvolvo.com

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)

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