



# OIL ANALYSIS REPORT

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



Machine Id  
**CATERPILLAR 326F #754 (S/N WGL10049)**  
 Component  
**Right Final Drive**  
 Fluid  
**SAE 50W (--- GAL)**

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number  |     | Client Info |           | <b>TLY0002602</b>  | ---      | ---      |
| Sample Date    |     | Client Info |           | <b>21 Jun 2024</b> | ---      | ---      |
| Machine Age    | hrs | Client Info |           | <b>4087</b>        | ---      | ---      |
| Oil Age        | hrs | Client Info |           | <b>4087</b>        | ---      | ---      |
| Filter Age     | hrs | Client Info |           | <b>4087</b>        | ---      | ---      |
| Oil Changed    |     | Client Info |           | <b>Not Changd</b>  | ---      | ---      |
| Filter Changed |     | Client Info |           | <b>Not Changd</b>  | ---      | ---      |
| Sample Status  |     |             |           | <b>ABNORMAL</b>    | ---      | ---      |

## WEAR

Gear wear is indicated. All other component wear rates are normal.

|              |        |             |      |              |     |     |
|--------------|--------|-------------|------|--------------|-----|-----|
| Iron         | ppm    | ASTM D5185m | >800 | <b>▲ 879</b> | --- | --- |
| Chromium     | ppm    | ASTM D5185m | >10  | <b>7</b>     | --- | --- |
| Nickel       | ppm    | ASTM D5185m | >5   | <b>1</b>     | --- | --- |
| Titanium     | ppm    | ASTM D5185m | >15  | <b>5</b>     | --- | --- |
| Silver       | ppm    | ASTM D5185m | >2   | <b>&lt;1</b> | --- | --- |
| Aluminum     | ppm    | ASTM D5185m | >75  | <b>37</b>    | --- | --- |
| Lead         | ppm    | ASTM D5185m | >10  | <b>&lt;1</b> | --- | --- |
| Copper       | ppm    | ASTM D5185m | >75  | <b>2</b>     | --- | --- |
| Tin          | ppm    | ASTM D5185m | >8   | <b>0</b>     | --- | --- |
| Vanadium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | --- | --- |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | --- | --- |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | --- | --- |

## CONTAMINATION

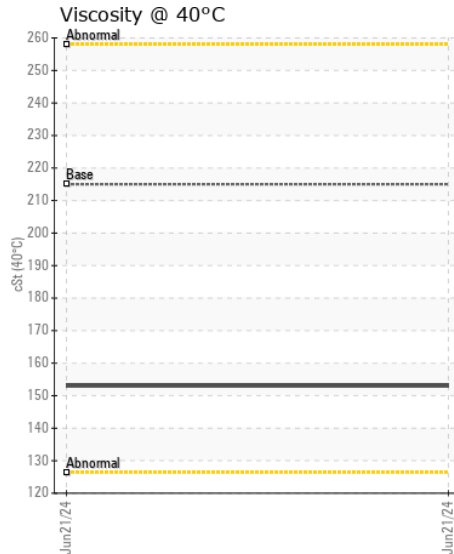
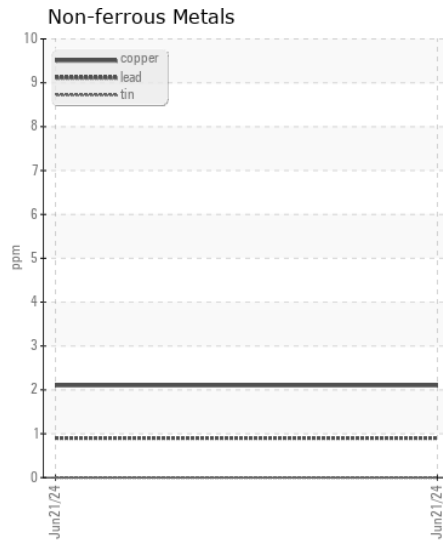
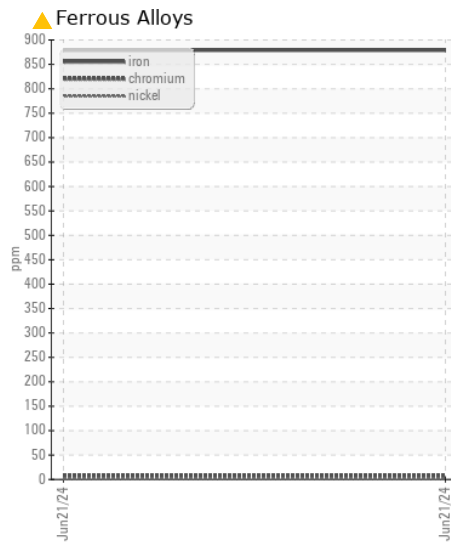
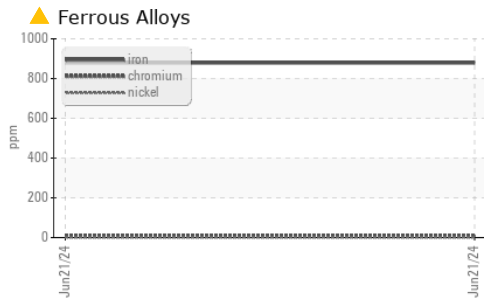
There is no indication of any contamination in the oil.

|                  |        |             |       |              |     |     |
|------------------|--------|-------------|-------|--------------|-----|-----|
| Silicon          | ppm    | ASTM D5185m | >400  | <b>261</b>   | --- | --- |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>12</b>    | --- | --- |
| Water            |        | WC Method   | >0.2  | <b>NEG</b>   | --- | --- |
| Silt             | scalar | *Visual     | NONE  | <b>NONE</b>  | --- | --- |
| Debris           | scalar | *Visual     | NONE  | <b>NONE</b>  | --- | --- |
| Sand/Dirt        | scalar | *Visual     | NONE  | <b>NONE</b>  | --- | --- |
| Appearance       | scalar | *Visual     | NORML | <b>NORML</b> | --- | --- |
| Odor             | scalar | *Visual     | NORML | <b>NORML</b> | --- | --- |
| Emulsified Water | scalar | *Visual     | >0.2  | <b>NEG</b>   | --- | --- |

## FLUID CONDITION

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

|            |     |             |  |              |     |     |
|------------|-----|-------------|--|--------------|-----|-----|
| Sodium     | ppm | ASTM D5185m |  | <b>&lt;1</b> | --- | --- |
| Boron      | ppm | ASTM D5185m |  | <b>9</b>     | --- | --- |
| Barium     | ppm | ASTM D5185m |  | <b>2</b>     | --- | --- |
| Molybdenum | ppm | ASTM D5185m |  | <b>6</b>     | --- | --- |
| Manganese  | ppm | ASTM D5185m |  | <b>10</b>    | --- | --- |
| Magnesium  | ppm | ASTM D5185m |  | <b>48</b>    | --- | --- |
| Calcium    | ppm | ASTM D5185m |  | <b>2971</b>  | --- | --- |
| Phosphorus | ppm | ASTM D5185m |  | <b>919</b>   | --- | --- |
| Zinc       | ppm | ASTM D5185m |  | <b>1169</b>  | --- | --- |
| Sulfur     | ppm | ASTM D5185m |  | <b>11406</b> | --- | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TLY0002602  
**Lab Number** : 06221869  
**Unique Number** : 11100066  
**Test Package** : CONST  
**Received** : 26 Jun 2024  
**Tested** : 29 Jun 2024  
**Diagnosed** : 29 Jun 2024 - Don Baldrige

**GAINES & COMPANY**  
 112 WESTMINSTER RD  
 REISTERSTOWN, MD  
 US 21136  
 Contact: BRANDY BADING  
 bbading@gainesandco.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)

T:  
F: