



# OIL ANALYSIS REPORT

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



Area  
**Off Road**  
Machine Id  
**CATERPILLAR 730 AD410 (S/N OAGF00691)**  
Component  
**Rear Differential**  
Fluid  
**DURALENE Dura-Trans TO-4 50 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>WC0675149</b>   | WC0615302   | WC0395395   |
| Sample Date    |     | Client Info |           | <b>10 Nov 2023</b> | 25 Mar 2022 | 07 May 2020 |
| Machine Age    | hrs | Client Info |           | <b>17605</b>       | 17240       | 16824       |
| Oil Age        | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>Not Changd</b>  | Not Changd  | Not Changd  |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | N/A         | N/A         |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

## WEAR

All component wear rates are normal.

|              |        |             |      |              |      |      |
|--------------|--------|-------------|------|--------------|------|------|
| Iron         | ppm    | ASTM D5185m | >500 | <b>50</b>    | 35   | 36   |
| Chromium     | ppm    | ASTM D5185m | >3   | <b>&lt;1</b> | <1   | <1   |
| Nickel       | ppm    | ASTM D5185m | >3   | <b>0</b>     | 0    | 0    |
| Titanium     | ppm    | ASTM D5185m | >2   | <b>&lt;1</b> | <1   | <1   |
| Silver       | ppm    | ASTM D5185m | >2   | <b>0</b>     | <1   | 0    |
| Aluminum     | ppm    | ASTM D5185m | >30  | <b>2</b>     | 4    | 4    |
| Lead         | ppm    | ASTM D5185m | >13  | <b>0</b>     | <1   | <1   |
| Copper       | ppm    | ASTM D5185m | >103 | <b>3</b>     | 2    | 2    |
| Tin          | ppm    | ASTM D5185m | >5   | <b>0</b>     | <1   | 0    |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |

## CONTAMINATION

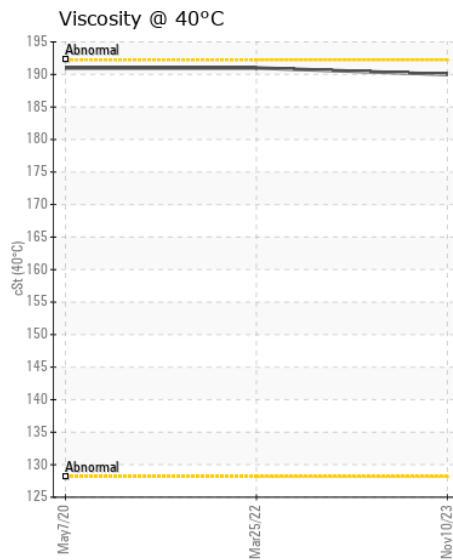
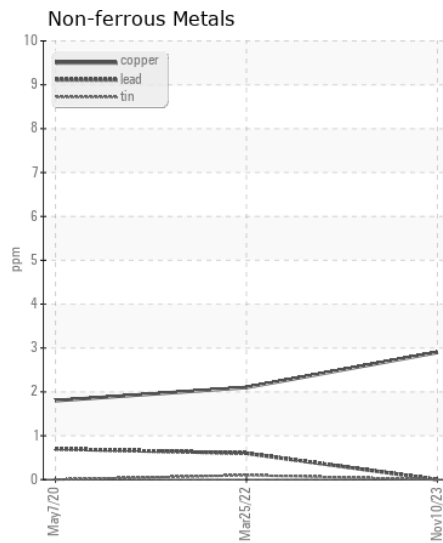
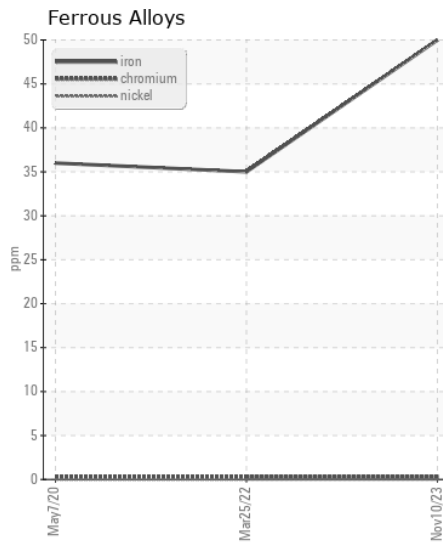
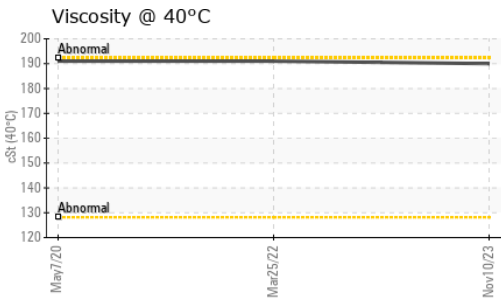
There is no indication of any contamination in the oil.

|                  |        |             |       |              |       |       |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >100  | <b>43</b>    | 28    | 30    |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>2</b>     | 0     | 5     |
| Water            |        | WC Method   | >.2   | <b>NEG</b>   | NEG   | NEG   |
| Silt             | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Debris           | scalar | *Visual     | NONE  | <b>LIGHT</b> | NONE  | NONE  |
| Sand/Dirt        | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Appearance       | scalar | *Visual     | NORML | <b>NORML</b> | NORML | NORML |
| Odor             | scalar | *Visual     | NORML | <b>NORML</b> | NORML | NORML |
| Emulsified Water | scalar | *Visual     | >.2   | <b>NEG</b>   | NEG   | NEG   |

## FLUID CONDITION

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

|             |     |             |  |              |      |      |
|-------------|-----|-------------|--|--------------|------|------|
| Sodium      | ppm | ASTM D5185m |  | <b>0</b>     | 3    | 2    |
| Boron       | ppm | ASTM D5185m |  | <b>15</b>    | 14   | 13   |
| Barium      | ppm | ASTM D5185m |  | <b>3</b>     | 0    | 0    |
| Molybdenum  | ppm | ASTM D5185m |  | <b>&lt;1</b> | 1    | <1   |
| Manganese   | ppm | ASTM D5185m |  | <b>&lt;1</b> | <1   | <1   |
| Magnesium   | ppm | ASTM D5185m |  | <b>14</b>    | 13   | 13   |
| Calcium     | ppm | ASTM D5185m |  | <b>3740</b>  | 3392 | 3571 |
| Phosphorus  | ppm | ASTM D5185m |  | <b>957</b>   | 775  | 780  |
| Zinc        | ppm | ASTM D5185m |  | <b>1118</b>  | 826  | 923  |
| Sulfur      | ppm | ASTM D5185m |  | <b>13793</b> | 9205 | 9428 |
| Visc @ 40°C | cSt | ASTM D445   |  | <b>190</b>   | 191  | 191  |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0675149 **Recieved** : 17 Jan 2024  
**Lab Number** : 06063222 **Diagnosed** : 18 Jan 2024  
**Unique Number** : 10834604 **Diagnostician** : Wes Davis  
**Test Package** : CONST

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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