

# **OIL ANALYSIS REPORT**

Sample Rating Trend





### Machine Id **CATERPILLAR 745D 13406 (S/N 3T606502)** Component Brake

Fluid {not provided} (--- GAL)

#### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the fluid.

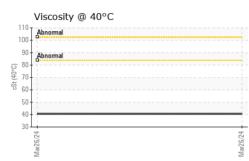
#### Fluid Condition

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

| SAMPLE INFORM    | IATION | method      | limit/base | current     | history1       | history2     |
|------------------|--------|-------------|------------|-------------|----------------|--------------|
| Sample Number    |        | Client Info |            | WC0913218   |                |              |
| Sample Date      |        | Client Info |            | 26 Mar 2024 |                |              |
| Machine Age      | hrs    | Client Info |            | 1230        |                |              |
| Oil Age          | hrs    | Client Info |            | 1230        |                |              |
| Oil Changed      |        | Client Info |            | Changed     |                |              |
| Sample Status    |        |             |            | NORMAL      |                |              |
| CONTAMINATION    | 1      | method      | limit/base | current     | history1       | history2     |
| Water            | u .    | WC Method   | >0.2       | NEG         |                |              |
| WEAR METALS      |        | method      | limit/base | current     | history1       | history2     |
| Iron             | ppm    | ASTM D5185m | >350       | 7           |                |              |
| Chromium         | ppm    | ASTM D5185m | >5         | 0           |                |              |
| Nickel           | ppm    | ASTM D5185m | >5         | 0           |                |              |
| Titanium         | ppm    | ASTM D5185m |            | 0           |                |              |
| Silver           | ppm    | ASTM D5185m |            | 0           |                |              |
| Aluminum         | ppm    | ASTM D5185m | >8         | <1          |                |              |
| Lead             | ppm    | ASTM D5185m | >10        | 0           |                |              |
| Copper           | ppm    | ASTM D5185m | >150       | 11          |                |              |
| Tin              | ppm    | ASTM D5185m | >5         | <1          |                |              |
| Vanadium         | ppm    | ASTM D5185m |            | 0           |                |              |
| Cadmium          | ppm    | ASTM D5185m |            | 0           |                |              |
| ADDITIVES        |        | method      | limit/base | current     | history1       | history2     |
| Boron            | ppm    | ASTM D5185m |            | 6           |                |              |
| Barium           | ppm    | ASTM D5185m |            | 0           |                |              |
| Molybdenum       | ppm    | ASTM D5185m |            | 0           |                |              |
| Manganese        | ppm    | ASTM D5185m |            | <1          |                |              |
| Magnesium        | ppm    | ASTM D5185m |            | 1           |                |              |
| Calcium          | ppm    | ASTM D5185m |            | 2566        |                |              |
| Phosphorus       | ppm    | ASTM D5185m |            | 994         |                |              |
| Zinc             | ppm    | ASTM D5185m |            | 1104        |                |              |
| Sulfur           | ppm    | ASTM D5185m |            | 4506        |                |              |
| CONTAMINANTS     |        | method      | limit/base | current     | history1       | history2     |
| Silicon          | ppm    | ASTM D5185m | >400       | 148         |                |              |
| Sodium           | ppm    | ASTM D5185m |            | 4           |                |              |
| Potassium        | ppm    | ASTM D5185m | >20        | 0           |                |              |
| VISUAL           |        | method      | limit/base | current     | history1       | history2     |
| White Metal      | scalar | *Visual     | NONE       | NONE        |                |              |
| Yellow Metal     | scalar | *Visual     | NONE       | NONE        |                |              |
| Precipitate      | scalar | *Visual     | NONE       | NONE        |                |              |
| Silt             | scalar | *Visual     | NONE       | NONE        |                |              |
| Debris           | scalar | *Visual     | NONE       | NONE        |                |              |
| Sand/Dirt        | scalar | *Visual     | NONE       | NONE        |                |              |
| Appearance       | scalar | *Visual     | NORML      | NORML       |                |              |
| Odor             | scalar | *Visual     | NORML      | NORML       |                |              |
| Emulsified Water | scalar | *Visual     | >0.2       | NEG         |                |              |
| Free Water       | scalar | *Visual     |            | NEG         |                |              |
| 0:41:05) Rev: 1  |        |             |            | Contact/Loc | ation: MIKE WY | ATT - TRANEW |



## **OIL ANALYSIS REPORT**



| F                 | LUID PROPERTI                                      | ES                           | method    | limit/base                       | current  | history1 | histor                                 |
|-------------------|----------------------------------------------------|------------------------------|-----------|----------------------------------|----------|----------|----------------------------------------|
| Vis               | sc @ 40°C                                          | cSt A                        | ASTM D445 |                                  | 40.5     |          |                                        |
| S                 | SAMPLE IMAGES                                      |                              | method    | limit/base                       | current  | history1 | histor                                 |
| Co                | lor                                                |                              |           |                                  | no image | no image | no imag                                |
| Mar26/24          | ttom                                               |                              |           |                                  | no image | no image | no imag                                |
| G                 | GRAPHS                                             |                              |           |                                  |          |          |                                        |
|                   | errous Alloys                                      |                              |           |                                  |          |          |                                        |
| 11                | lon-ferrous Metals                                 |                              |           | Mar26/24                         |          |          |                                        |
| 4090 Mar          | 1 7 10 7 10 1                                      |                              |           | Mar26/24                         |          |          |                                        |
| V                 | iscosity @ 40°C                                    |                              |           | 2                                |          |          |                                        |
| 110<br>100        | Abnormal                                           |                              |           |                                  |          |          |                                        |
| 90 -              | Abnormal                                           |                              |           |                                  |          |          |                                        |
| - 08<br>- 07<br>장 |                                                    |                              |           |                                  |          |          |                                        |
| 종<br>60           |                                                    |                              |           |                                  |          |          |                                        |
| 50-               |                                                    |                              |           |                                  |          |          |                                        |
| 40 -              |                                                    |                              |           | -                                |          |          |                                        |
| 30 + 409 CreW     | 1 4<br>1<br>1<br>0<br>1                            |                              |           | Mar26/24 +                       |          |          |                                        |
| Mari              |                                                    |                              |           | Mar                              |          |          |                                        |
|                   | arCheck USA - 501<br>0913218<br><mark>37768</mark> | Madison<br>Receive<br>Tested | ed : 03   | NC 27513<br>Apr 2024<br>Apr 2024 | т        |          | <b>RUCTION</b><br>DRAWER 1<br>IEW BERN |



Unique Number : 10962576 Diagnosed : 05 Apr 2024 - Sean Felton Test Package : CONST Contact: MIKE WYATT Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. mwyatt@traderconstruction.com \* - 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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