

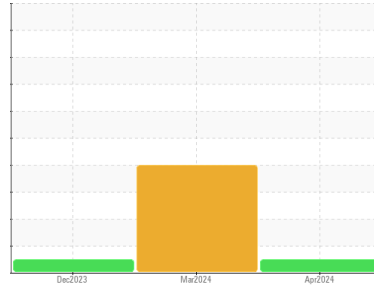


OIL ANALYSIS REPORT



Machine Id
CATERPILLAR 745D 13405 (S/N 3T606094)
 Component
Transmission (Manual)
 Fluid
TDTO FLUID SAE 30 (--- GAL)

Sample Rating Trend



NORMAL



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) TDTO FLUID SAE 30. Please confirm.

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 INFORMATION | | method | limit/base | current | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | | WC0913163 | WC0831272 | WC0879407 |
| Sample Date | Client Info | | | 03 Apr 2024 | 05 Mar 2024 | 04 Dec 2023 |
| Machine Age | hrs | Client Info | | 2240 | 1778 | 713 |
| Oil Age | hrs | Client Info | | 1064 | 602 | 713 |
| Oil Changed | Client Info | | | Changed | Not Changd | Not Changd |
| Sample Status | | | | NORMAL | ABNORMAL | NORMAL |

| CONTAMINATION | | method | limit/base | current | history1 | history2 |
|---------------|-----------|--------|------------|------------|----------|----------|
| Water | WC Method | | >0.1 | NEG | NEG | NEG |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m | >200 | 15 | ▲ 147 | 13 |
| Chromium | ppm | ASTM D5185m | >5 | <1 | 2 | <1 |
| Nickel | ppm | ASTM D5185m | >5 | <1 | 2 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 4 | 0 |
| Silver | ppm | ASTM D5185m | >7 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 2 | ● 21 | 1 |
| Lead | ppm | ASTM D5185m | >45 | 2 | 0 | 2 |
| Copper | ppm | ASTM D5185m | >225 | 19 | 79 | 7 |
| Tin | ppm | ASTM D5185m | >10 | <1 | 3 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Cadmium | ppm | ASTM D5185m | | <1 | 0 | 0 |

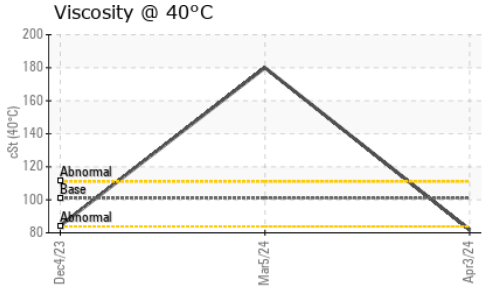
| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | 37 | 2 | 4 | 1 |
| Barium | ppm | ASTM D5185m | 7 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 5 | 4 | <1 | <1 |
| Manganese | ppm | ASTM D5185m | | <1 | 2 | <1 |
| Magnesium | ppm | ASTM D5185m | 40 | 55 | 0 | 0 |
| Calcium | ppm | ASTM D5185m | 2650 | 3423 | 3124 | 2990 |
| Phosphorus | ppm | ASTM D5185m | 1050 | 1065 | 966 | 1010 |
| Zinc | ppm | ASTM D5185m | 1075 | 1212 | 1094 | 1163 |
| Sulfur | ppm | ASTM D5185m | 5750 | 5951 | 14878 | 8640 |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|----------|----------|----------|
| Silicon | ppm | ASTM D5185m | >125 | 7 | ▲ 169 | 7 |
| Sodium | ppm | ASTM D5185m | | 1 | 1 | 4 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 2 | 0 |

| VISUAL | | method | limit/base | current | history1 | history2 |
|------------------|--------|---------|------------|--------------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | ▲ MODER | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.1 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |



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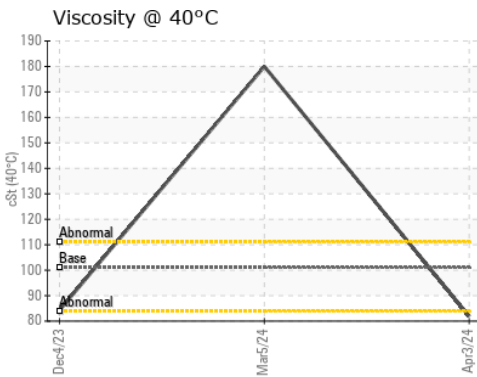
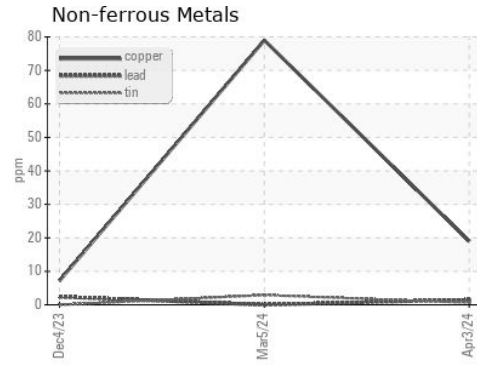
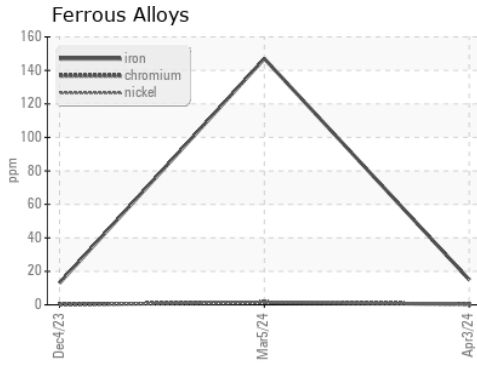
| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
|------------------|--------|------------|---------|----------|----------|

| | | | | | | |
|-------------|-----|-----------|-----|-------------|-----|------|
| Visc @ 40°C | cSt | ASTM D445 | 101 | 81.9 | 180 | 84.3 |
|-------------|-----|-----------|-----|-------------|-----|------|

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|---------------|--------|------------|---------|----------|----------|

| | | | | | | |
|--------|--|--|--|----------|----------|----------|
| Color | | | | no image | no image | no image |
| Bottom | | | | no image | no image | no image |

| GRAPHS |
|--------|
|--------|



Certificate L2367

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)

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0913163
Lab Number : 06147832
Unique Number : 10977910
Test Package : CONST
Received : 12 Apr 2024
Tested : 15 Apr 2024
Diagnosed : 15 Apr 2024 - Wes Davis

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