

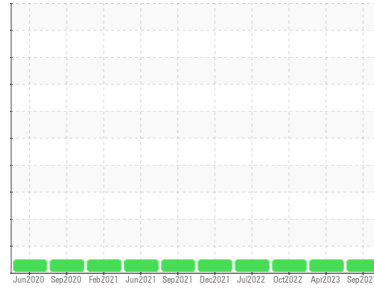
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
CATERPILLAR 730 6080 (S/N TFF00703)
Component
Rear Differential
Fluid
TULCO LUBSOIL TO-4 50 (12 GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | | TO10002714 | TO10002190 | TO10001492 |
| Sample Date | Client Info | | | 21 Sep 2023 | 05 Apr 2023 | 05 Oct 2022 |
| Machine Age | hrs | Client Info | | 9710 | 9213 | 8703 |
| Oil Age | hrs | Client Info | | 2044 | 1549 | 1039 |
| Oil Changed | Client Info | | | Not Chngd | Not Chngd | Not Chngd |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

| CONTAMINATION | | method | limit/base | current | history1 | history2 |
|---------------|-----------|--------|------------|------------|----------|----------|
| Water | WC Method | | >.2 | NEG | NEG | NEG |

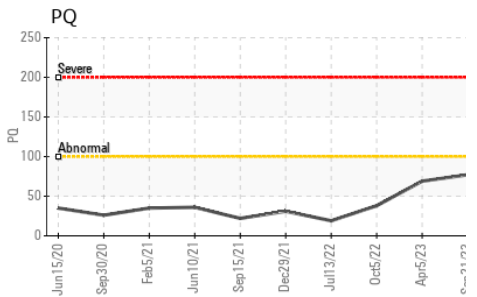
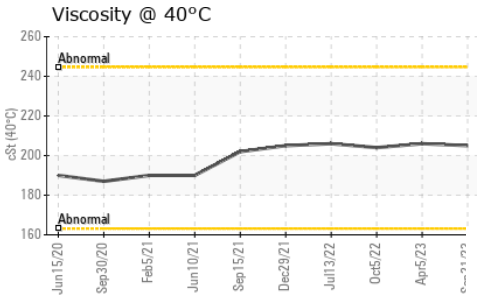
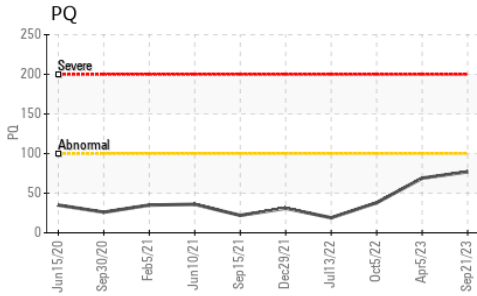
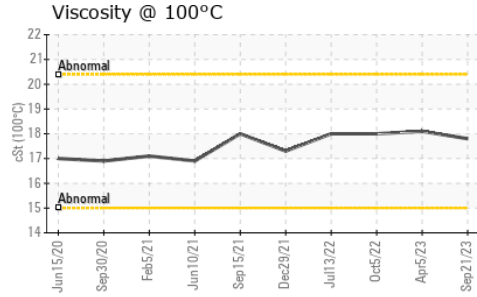
| WEAR METALS | | method | limit/base | current | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| PQ | | ASTM D8184 | | 77 | 69 | 38 |
| Iron | ppm | ASTM D5185m | >500 | 74 | 75 | 31 |
| Chromium | ppm | ASTM D5185m | >3 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >3 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | >2 | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >30 | 5 | 2 | 4 |
| Lead | ppm | ASTM D5185m | >13 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >103 | 5 | 4 | 2 |
| Tin | ppm | ASTM D5185m | >5 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | | 0 | 0 | 1 |
| Barium | ppm | ASTM D5185m | | 2 | 0 | 2 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 14 | 14 | 15 |
| Calcium | ppm | ASTM D5185m | | 3994 | 3771 | 4155 |
| Phosphorus | ppm | ASTM D5185m | | 832 | 798 | 807 |
| Zinc | ppm | ASTM D5185m | | 1024 | 977 | 1025 |
| Sulfur | ppm | ASTM D5185m | | 4851 | 4593 | 5737 |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|-----------|----------|----------|
| Silicon | ppm | ASTM D5185m | >100 | 22 | 20 | 18 |
| Sodium | ppm | ASTM D5185m | | 2 | 3 | 3 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 1 | 2 |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 1.05 | 0.97 | 0.86 |

OIL ANALYSIS REPORT



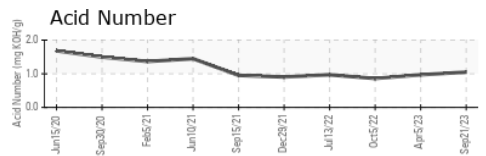
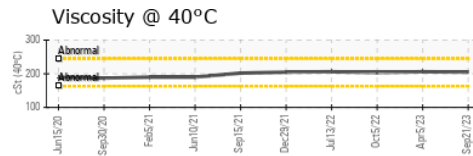
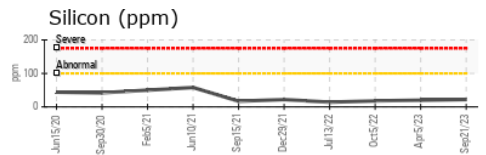
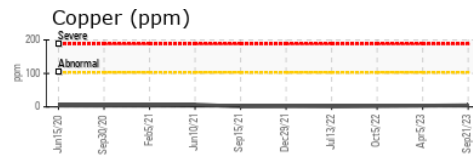
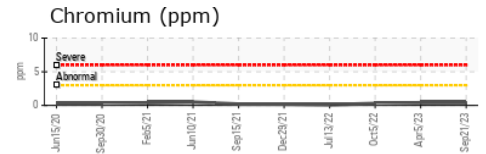
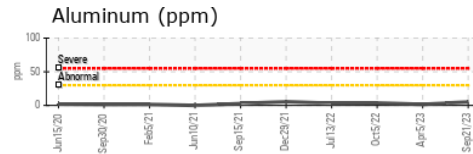
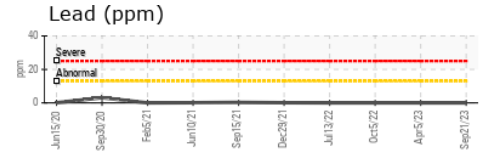
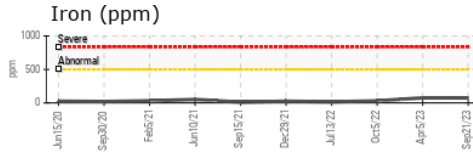
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >.2 | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|----------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 205 | 206 | 204 |
| Visc @ 100°C | cSt | ASTM D445 | 17.8 | 18.1 | 18.0 |
| Viscosity Index (VI) | Scale | ASTM D2270 | 94 | 96 | 96 |

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

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO10002714 **Received** : 25 Sep 2023
Lab Number : 05960737 **Tested** : 27 Sep 2023
Unique Number : 10661950 **Diagnosed** : 27 Sep 2023 - Wes Davis
Test Package : MOB 2 (Additional Tests: KV100, PQ, VI)

ANCHOR STONE TULSA ROCK
 TULSA ROCK QUARRY, 66TH ST N 145TH AVENUE
 TULSA, OK
 US 74137

Contact: MIKE SNYDER
 msnyder@anchorstoneco.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: (417)850-9635

F: