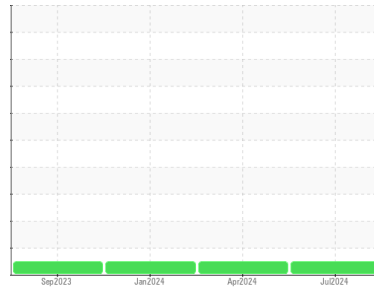


OIL ANALYSIS REPORT



Machine Id
CATERPILLAR 775F HAUL TRUCK 6151 (S/N DLS00524)
Component
Rear Differential
Fluid
TULCO LUBSOIL TO-4 50 (--- GAL)

Sample Rating Trend



NORMAL

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 | | TO10003677 | TO10003016 | TO10002985 |
| Sample Date | Client Info | | 13 Jul 2024 | 20 Apr 2024 | 26 Jan 2024 |
| Machine Age | hrs | Client Info | 2161 | 1657 | 1073 |
| Oil Age | hrs | Client Info | 2161 | 1657 | 1073 |
| 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 | | 50 | 71 | 65 |
| Iron | ppm | ASTM D5185m | >500 | 63 | 52 | 51 |
| Chromium | ppm | ASTM D5185m | >3 | 0 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >3 | <1 | 1 | <1 |
| Titanium | ppm | ASTM D5185m | >2 | <1 | 1 | <1 |
| Silver | ppm | ASTM D5185m | >2 | 0 | <1 | 0 |
| Aluminum | ppm | ASTM D5185m | >30 | 3 | 4 | 3 |
| Lead | ppm | ASTM D5185m | >13 | 0 | 2 | 1 |
| Copper | ppm | ASTM D5185m | >103 | 9 | 7 | 5 |
| Tin | ppm | ASTM D5185m | >5 | <1 | 1 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Cadmium | ppm | ASTM D5185m | | 0 | <1 | <1 |

ADDITIVES method limit/base current history1 history2

| | | | | | | |
|------------|-----|-------------|--|--------------|------|------|
| Boron | ppm | ASTM D5185m | | 5 | 4 | 3 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 1 | 2 | 2 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 14 | 22 | 25 |
| Calcium | ppm | ASTM D5185m | | 3202 | 2757 | 2757 |
| Phosphorus | ppm | ASTM D5185m | | 1028 | 931 | 979 |
| Zinc | ppm | ASTM D5185m | | 1191 | 1079 | 1127 |
| Sulfur | ppm | ASTM D5185m | | 5384 | 4446 | 4405 |

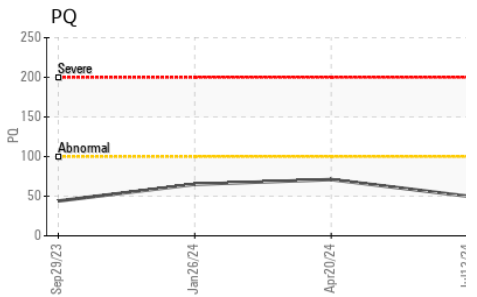
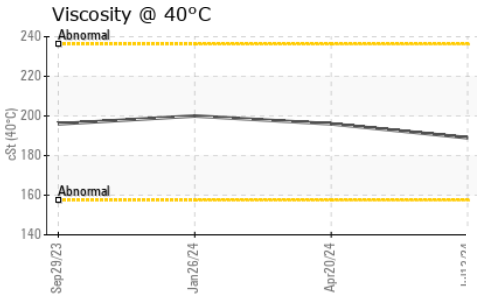
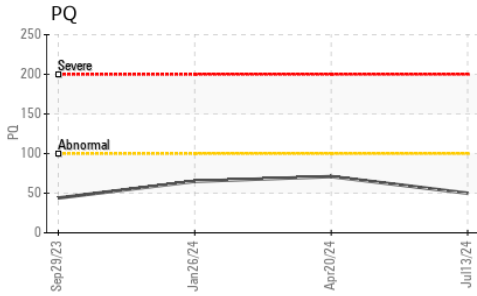
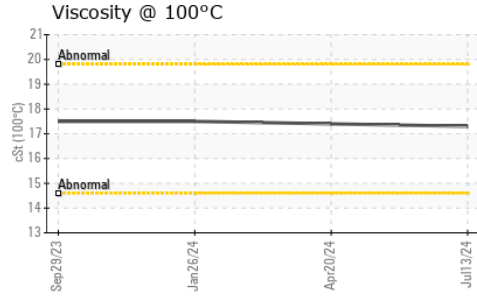
CONTAMINANTS method limit/base current history1 history2

| | | | | | | |
|-----------|-----|-------------|------|-----------|----|----|
| Silicon | ppm | ASTM D5185m | >100 | 37 | 33 | 32 |
| Sodium | ppm | ASTM D5185m | | 5 | 2 | 3 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 4 | 1 |

FLUID DEGRADATION method limit/base current history1 history2

| | | | | | | |
|------------------|----------|------------|--|-------------|------|------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 1.11 | 1.15 | 1.07 |
|------------------|----------|------------|--|-------------|------|------|

OIL ANALYSIS REPORT



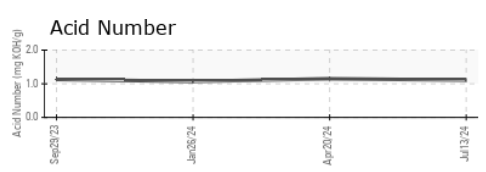
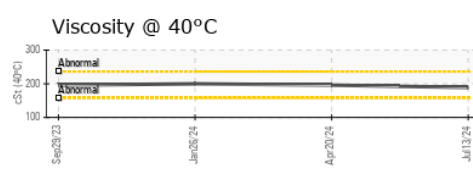
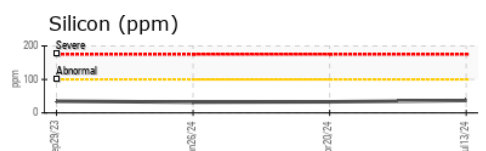
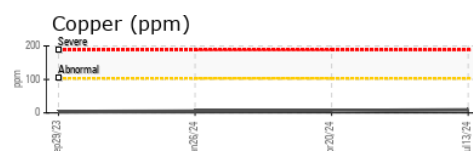
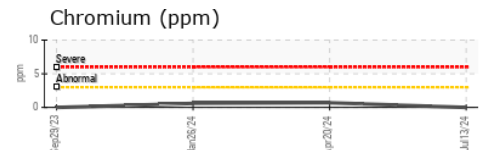
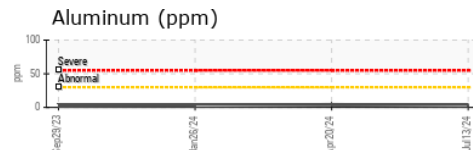
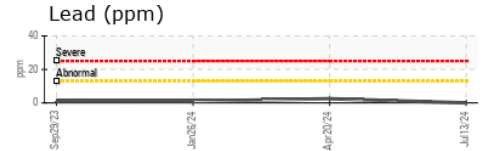
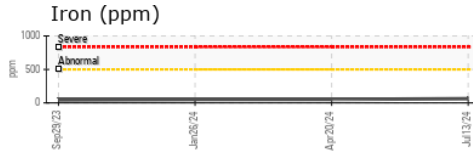
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | 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 | 189 | 196 | 200 |
| Visc @ 100°C | cSt | ASTM D445 | 17.3 | 17.4 | 17.5 |
| Viscosity Index (VI) | Scale | ASTM D2270 | 97 | 95 | 94 |

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. : TO10003677 **Received** : 18 Jul 2024
Lab Number : 06240989 **Tested** : 20 Jul 2024
Unique Number : 11129823 **Diagnosed** : 20 Jul 2024 - 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: SKIP SAENGERHAUSEN
 skip@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: (918)928-4575

F: