



OIL ANALYSIS REPORT

| | |
|-----------------|---------------|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |



Machine Id
CATERPILLAR 6494 (S/N 4FR00287)
 Component
Rear Right Planetary
 Fluid
TULCO LUBSOIL TO-4 50 (10 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | TO10003668 | TO10002742 | TO10002213 |
| Sample Date | | Client Info | | 22 Jun 2024 | 29 Sep 2023 | 24 Apr 2023 |
| Machine Age | hrs | Client Info | | 31455 | 30989 | 30493 |
| Oil Age | hrs | Client Info | | 2194 | 1728 | 1232 |
| Filter Age | hrs | Client Info | | 2194 | 0 | 0 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Not Changd |
| Filter Changed | | Client Info | | None | None | None |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| PQ | UOM | Method | Limit/Abn | Current | History1 | History2 |
|--------------|--------|-------------|-----------|--------------|----------|----------|
| PQ | | ASTM D8184 | | 16 | 18 | 16 |
| Iron | ppm | ASTM D5185m | >501 | 10 | 8 | 6 |
| Chromium | ppm | ASTM D5185m | >11 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >11 | <1 | 3 | 2 |
| Lead | ppm | ASTM D5185m | >25 | 0 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >151 | 3 | 2 | <1 |
| Tin | ppm | ASTM D5185m | >10 | 0 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

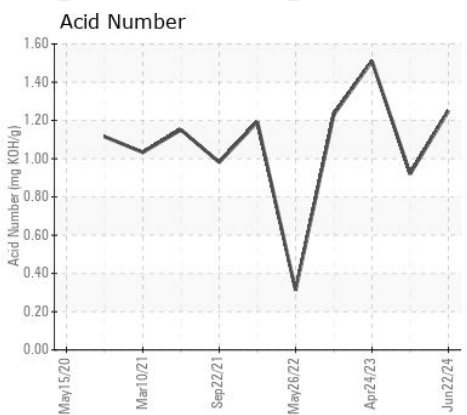
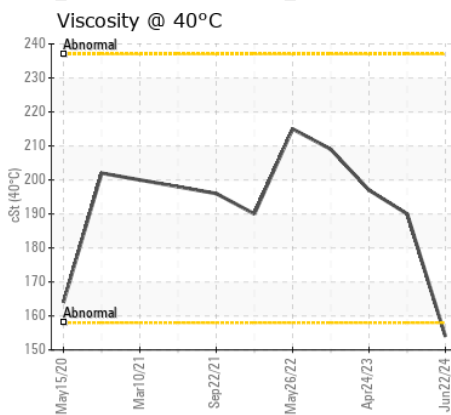
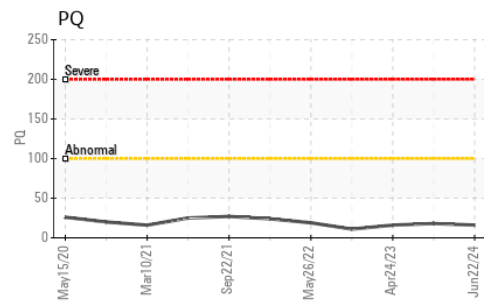
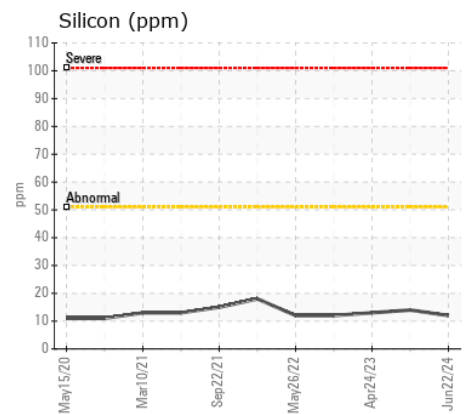
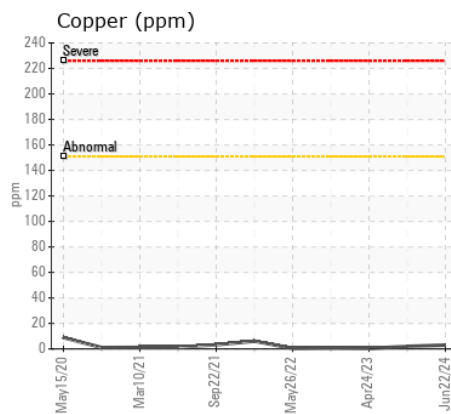
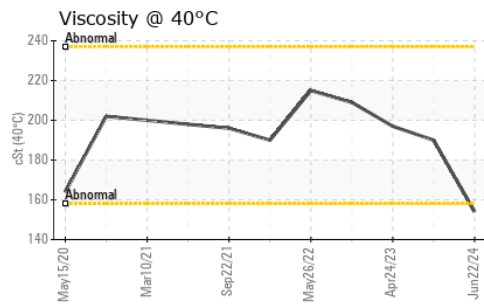
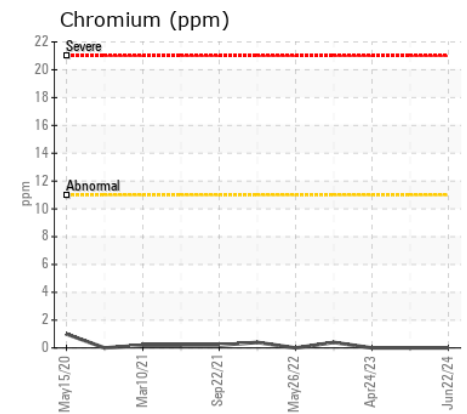
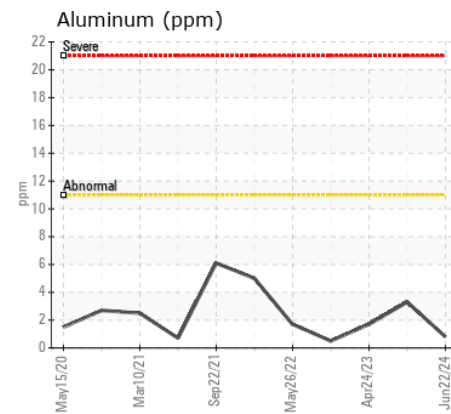
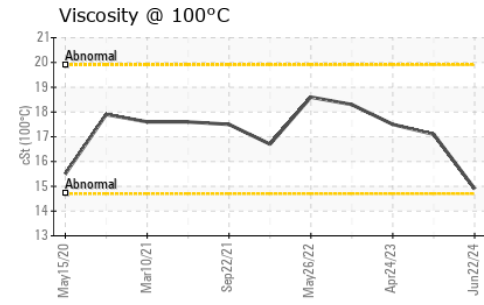
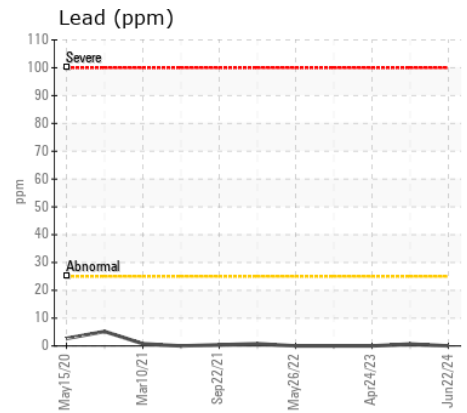
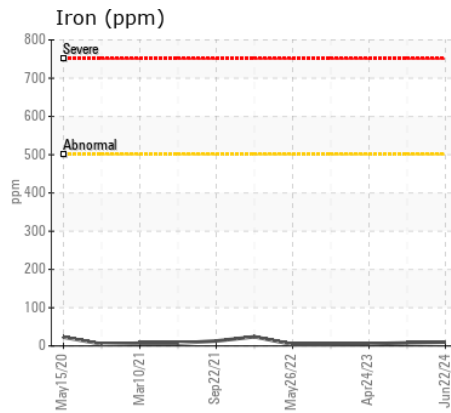
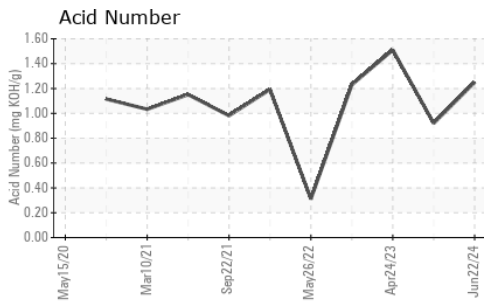
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >51 | 12 | 14 | 13 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 1 | 0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Silt | scalar | *Visual | NONE | NONE | NONE | 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 | >0.2 | NEG | NEG | NEG |

FLUID CONDITION

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

| | | | | | | |
|----------------------|----------|-------------|--|-------------|------|------|
| Sodium | ppm | ASTM D5185m | | 5 | 4 | 3 |
| Boron | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 45 | 22 | 18 |
| Calcium | ppm | ASTM D5185m | | 2645 | 3035 | 3698 |
| Phosphorus | ppm | ASTM D5185m | | 884 | 926 | 1022 |
| Zinc | ppm | ASTM D5185m | | 1003 | 1157 | 1297 |
| Sulfur | ppm | ASTM D5185m | | 4808 | 4792 | 6018 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 1.25 | 0.92 | 1.51 |
| Visc @ 40°C | cSt | ASTM D445 | | 154 | 190 | 197 |
| Visc @ 100°C | cSt | ASTM D445 | | 14.9 | 17.1 | 17.5 |
| Viscosity Index (VI) | Scale | ASTM D2270 | | 96 | 95 | 95 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO10003668 **Received** : 01 Jul 2024
Lab Number : 06225309 **Tested** : 02 Jul 2024
Unique Number : 11103506 **Diagnosed** : 03 Jul 2024 - Don Baldrige
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)

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F: