

WEAR NORMAL CONTAMINATION ATTENTION FLUID CONDITION NORMAL

FLUID CONDITION

Machine Id CATERPILLAR 963K TL3631 (S/N 0LBL00127) Component Hydraulic System Fluid CAT TDTO 10W (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

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All component wear rates are normal.

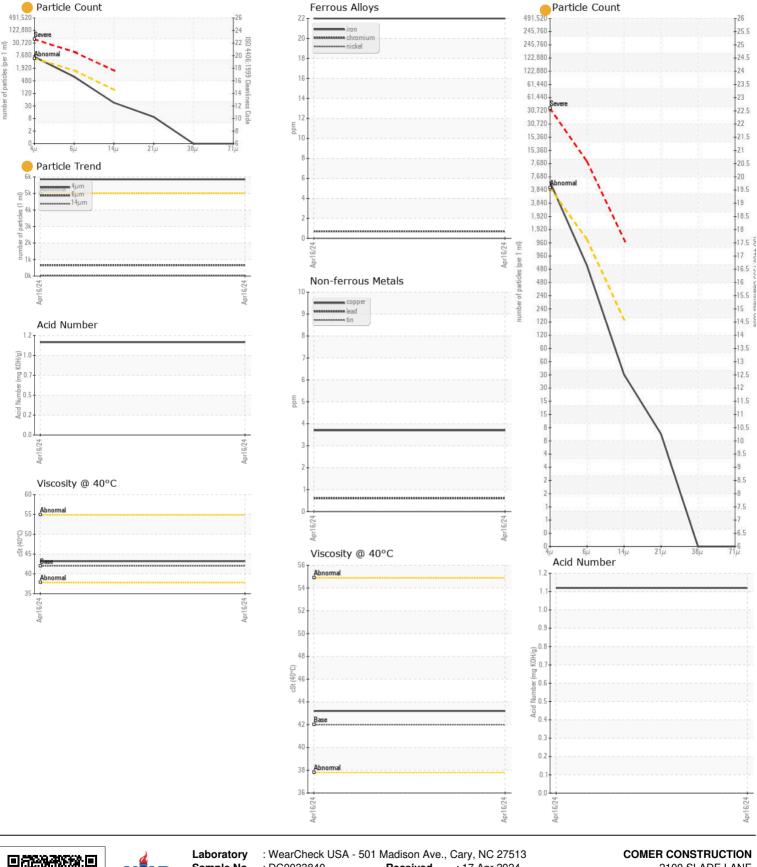
CONTAMINATION

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 | |
|------------------|----------|--------------|-----------|---------------|----------|----------|--|
| Sample Number | | Client Info | | DC0033840 | | | |
| Sample Date | | Client Info | | 16 Apr 2024 | | | |
| Machine Age | hrs | Client Info | | 2543 | | | |
| Oil Age | hrs | Client Info | | 500 | | | |
| Filter Age | hrs | Client Info | | 0 | | | |
| Oil Changed | 1110 | Client Info | | Not Changd | | | |
| Filter Changed | | Client Info | | Not Changd | | | |
| Sample Status | | | | ATTENTION | | | |
| | | | | | | | |
| Iron | ppm | ASTM D5185m | >20 | 22 | | | |
| Chromium | ppm | ASTM D5185m | >10 | <1 | | | |
| Nickel | ppm | ASTM D5185m | >10 | 0 | | | |
| Titanium | ppm | ASTM D5185m | | 0 | | | |
| Silver | ppm | ASTM D5185m | | 0 | | | |
| Aluminum | ppm | ASTM D5185m | >10 | 1 | | | |
| Lead | ppm | ASTM D5185m | >10 | <1 | | | |
| Copper | ppm | ASTM D5185m | >75 | 4 | | | |
| Tin | ppm | ASTM D5185m | >10 | 0 | | | |
| Vanadium | ppm | ASTM D5185m | | 0 | | | |
| White Metal | scalar | *Visual | NONE | NONE | | | |
| Yellow Metal | scalar | *Visual | NONE | NONE | | | |
| | | | | | | | |
| Silicon | ppm | ASTM D5185m | >20 | 3 | | | |
| Potassium | ppm | ASTM D5185m | >20 | 12 | | | |
| Water | | WC Method | >0.1 | NEG | | | |
| Particles >4µm | | ASTM D7647 | >5000 | 6 5850 | | | |
| Particles >6µm | | ASTM D7647 | >1300 | 655 | | | |
| Particles >14µm | | ASTM D7647 | >160 | 38 | | | |
| Particles >21µm | | ASTM D7647 | >40 | 8 | | | |
| Particles >38µm | | ASTM D7647 | >10 | 0 | | | |
| Particles >71µm | | ASTM D7647 | >3 | 0 | | | |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 0/17/12 | | | |
| Silt | scalar | *Visual | NONE | NONE | | | |
| Debris | scalar | *Visual | NONE | LIGHT | | | |
| Sand/Dirt | scalar | *Visual | NONE | NONE | | | |
| Appearance | scalar | *Visual | NORML | NORML | | | |
| Odor | scalar | *Visual | NORML | NORML | | | |
| Emulsified Water | scalar | *Visual | >0.1 | NEG | | | |
| Co allo un: | | | | F | | | |
| Sodium | ppm | ASTM D5185m | | 5 | | | |
| Boron | ppm | ASTM D5185m | | 3 | | | |
| Barium | ppm | ASTM D5185m | | 0 | | | |
| Molybdenum | ppm | ASTM D5185m | | | | | |
| Manganese | ppm | ASTM D5185m | | <1 | | | |
| Magnesium | ppm | ASTM D5185m | 2020 | 15 | | | |
| Calcium | ppm | ASTM D5185m | 2980 | 341 | | | |
| Phosphorus | ppm | ASTM D5185m | 1100 | 605 727 | | | |
| Zinc | ppm | ASTM D5185m | 1270 | 737 | | | |
| Sulfur | ppm | ASTM D5185m | | 1938 | | | |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 40.0 | 1.12 | | | |
| Visc @ 40°C | cSt | ASTM D445 | 42.0 | 43.2 | | | |



Sample No. Received 2100 SLADE LANE : DC0033840 : 17 Apr 2024 Lab Number : 06151933 : 18 Apr 2024 Tested FOREST HILL, MD Unique Number : 10982011 : 19 Apr 2024 - Don Baldridge US 21050 Diagnosed Test Package : MOB 2 Contact: DONALD FOX Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dfox@comerconstruction.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (443)269-1379 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (410)638-0289

Submitted By: DONALD FOX Page 2 of 2