



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



Area

[05W46012]

Machine Id

CATERPILLAR 950GC C285096 (S/N 0M5T05487)

Component

Hydraulic System

Fluid

CAT HYDO (160 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | JR0211025 | JR0203116 | JR0192203 |
| Sample Date | | Client Info | | 11 Apr 2024 | 12 Feb 2024 | 14 Nov 2023 |
| Machine Age | hrs | Client Info | | 2465 | 2018 | 1485 |
| Oil Age | hrs | Client Info | | 2465 | 2018 | 1485 |
| Filter Age | hrs | Client Info | | 447 | 2018 | 500 |
| Oil Changed | | Client Info | | Not Changed | Not Changed | Not Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| PQ | UOM | Method | Limit/Abn | Current | History1 | History2 |
|--------------|--------|-------------|-----------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m | >20 | <1 | <1 | 1 |
| Chromium | ppm | ASTM D5185m | >10 | 1 | <1 | 1 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | 0 | 1 | 2 |
| Lead | ppm | ASTM D5185m | >10 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185m | >75 | 3 | 3 | 4 |
| Tin | ppm | ASTM D5185m | >10 | 0 | 0 | 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

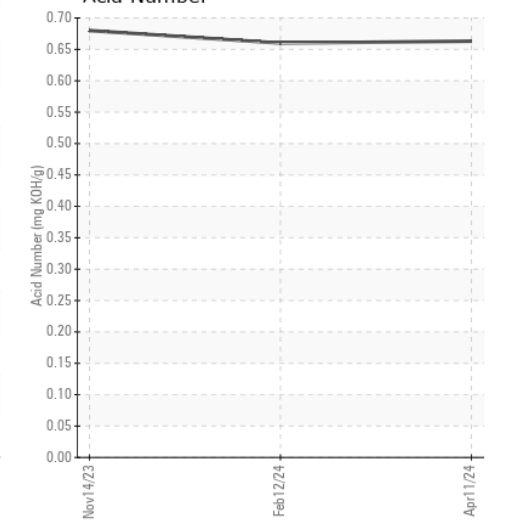
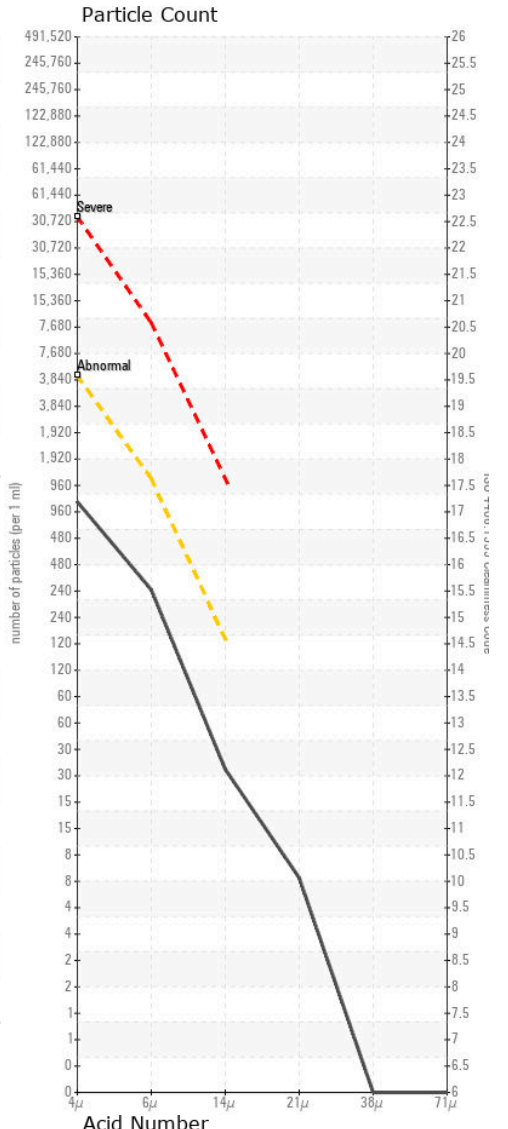
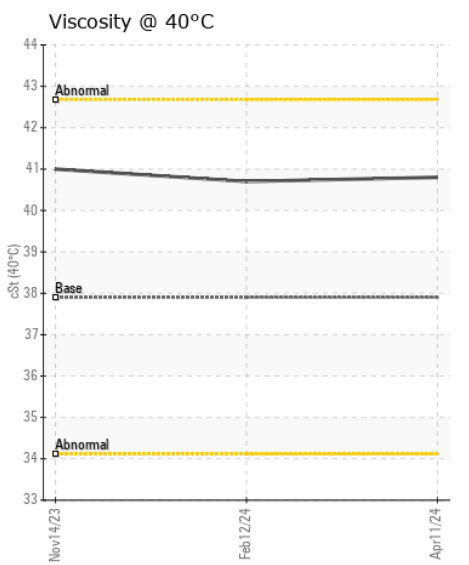
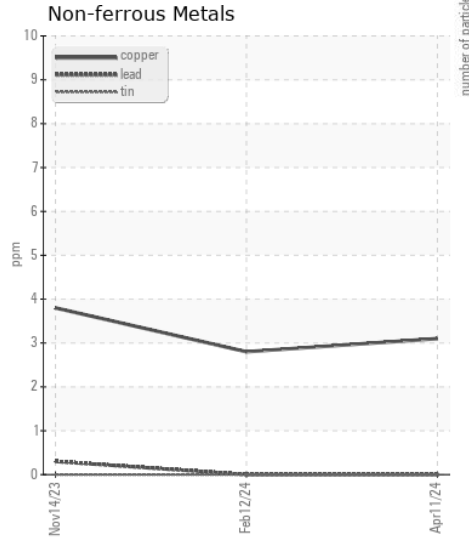
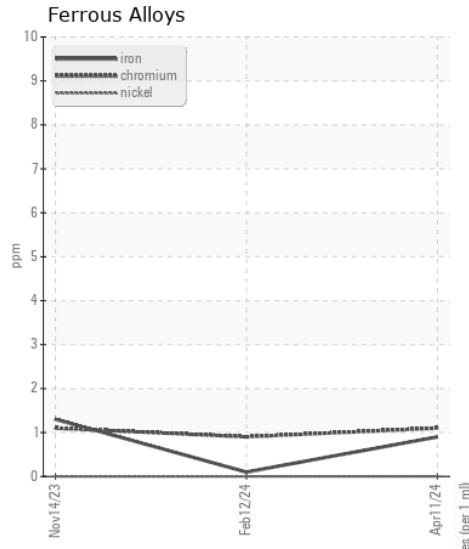
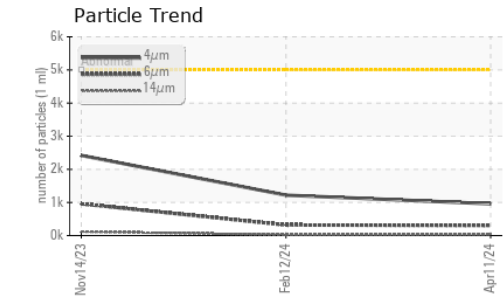
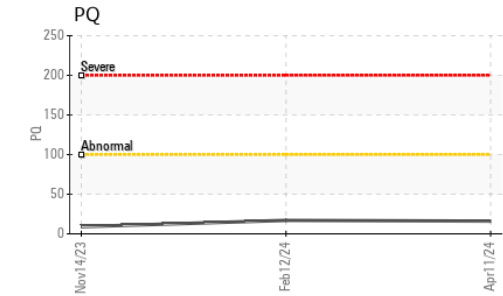
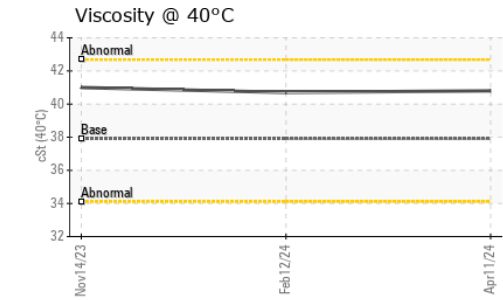
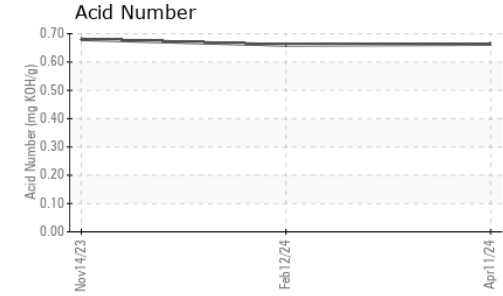
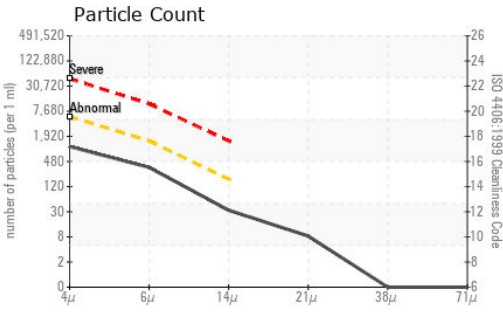
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

| | | | | | | |
|------------------|--------|--------------|-----------|-----------------|----------|----------|
| Silicon | ppm | ASTM D5185m | >20 | <1 | <1 | 2 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | <1 | 2 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >5000 | 959 | 1220 | 2419 |
| Particles >6µm | | ASTM D7647 | >1300 | 304 | 319 | 958 |
| Particles >14µm | | ASTM D7647 | >160 | 29 | 19 | 119 |
| Particles >21µm | | ASTM D7647 | >40 | 7 | 4 | 28 |
| Particles >38µm | | ASTM D7647 | >10 | 0 | 2 | 1 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 17/15/12 | 17/15/11 | 18/17/14 |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | LIGHT | 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 |

FLUID CONDITION

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

| | | | | | | |
|------------------|----------|-------------|------|--------------|------|------|
| Sodium | ppm | ASTM D5185m | | 3 | 0 | 0 |
| Boron | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | <1 | 2 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | | 0 | 3 | 3 |
| Calcium | ppm | ASTM D5185m | | 169 | 149 | 187 |
| Phosphorus | ppm | ASTM D5185m | 1100 | 614 | 613 | 717 |
| Zinc | ppm | ASTM D5185m | 1210 | 739 | 737 | 938 |
| Sulfur | ppm | ASTM D5185m | | 1627 | 1620 | 2115 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.663 | 0.66 | 0.68 |
| Visc @ 40°C | cSt | ASTM D445 | 37.9 | 40.8 | 40.7 | 41.0 |



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0211025 **Received** : 15 Apr 2024
Lab Number : 06149494 **Tested** : 16 Apr 2024
Unique Number : 10979572 **Diagnosed** : 16 Apr 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

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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)