

WEAR ABNORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

Machine Id CATERPILLAR 345C 345C-2 (S/N TDG00286) Component

Right Final Drive

SAE 50W (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.



Bearing and/or bushing wear is indicated.

CONTAMINATION

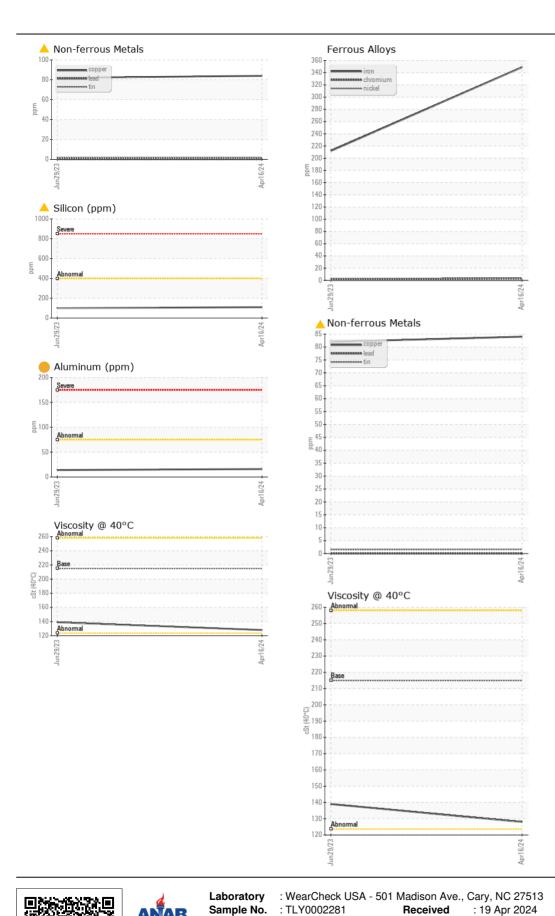
Elemental levels of silicon (Si) and aluminum (AI) indicate aluminasilicate (coarse dirt) ingress.

| FLU | ONL | IN |
|-----|-----|----|
| | | |

The condition of the oil is acceptable for the time in service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|------------------|-------------------|---|-----------|---------------------|---------------------|----------|
| Sample Number | | Client Info | | TLY0002281 | TLY0001650 | |
| Sample Date | | Client Info | | 16 Apr 2024 | 29 Jun 2023 | |
| Machine Age | hrs | Client Info | | 12433 | 12050 | |
| Oil Age | hrs | Client Info | | 12050 | 2050 | |
| Filter Age | hrs | Client Info | | 12050 | 2050 | |
| Oil Changed | | Client Info | | Not Changd | Not Changd | |
| Filter Changed | | Client Info | | Not Changd | N/A | |
| Sample Status | | | | ABNORMAL | ABNORMAL | |
| | | | | | 010 | |
| Iron | ppm | ASTM D5185m | >800 | 349 | 212 | |
| Chromium | ppm | ASTM D5185m | >10 | 3 | 2 | |
| Nickel | ppm | ASTM D5185m | >5 | 0 | 0 | |
| Titanium | ppm | ASTM D5185m | >15 | 2 | 2 | |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | |
| Aluminum | ppm | ASTM D5185m | >75 | 16 | 0 | |
| Lead | ppm | ASTM D5185m | >10 | 0 | 0 | |
| Copper | ppm | ASTM D5185m | >75 | <mark>▲</mark> 84 | ▲ 82 | |
| Tin | ppm | ASTM D5185m | >8 | 2 | 2 | |
| Vanadium | ppm | ASTM D5185m | NONE | 0 | <1 | |
| White Metal | scalar | *Visual | NONE | NONE | NONE | |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | |
| Silicon | ppm | ASTM D5185m | >400 | 110 | 1 00 | |
| Potassium | ppm | ASTM D5185m | >20 | 4 | 3 | |
| Water | | WC Method | >0.2 | NEG | NEG | |
| Silt | scalar | *Visual | NONE | MODER | A HEAVY | |
| 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 | >0.2 | NEG | NEG | |
| Sodium | nnm | ASTM D5185m | | 2 | 1 | |
| Boron | ppm ppm | ASTM D5185m | | 54 | 4 | |
| Barium | ppm | ASTM D5185m | | 0 | 0 | |
| Molybdenum | ppm | ASTM D5185m | | 7 | 3 | |
| Manganese | ppm | ASTM D5185m | | 8 | 2 | |
| Magnesium | ppm | ASTM D5185m | | 0 | 8 | |
| Calcium | ppm | ASTM D5185m | | 351 | 464 | |
| Phosphorus | ppm | ASTM D5185m | | 1229 | 500 | |
| | ppill | AOTHEDOTOOIII | | 1220 | 000 | |
| - | nnm | ASTM D5185m | | 130 | 194 | |
| Zinc | ppm | ASTM D5185m | | 139 27552 | 194 25056 | |
| - | ppm ppm cSt | ASTM D5185m ASTM D5185m ASTM D445 | 215 | 139 27552 128 | 194 25056 139 | |

Submitted By: BRANDY BADING



: TLY0002281

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.

Lab Number : 06154935

Unique Number : 10990358

Test Package : CONST

GAINES & COMPANY 112 WESTMINISTER RD REISTERSTOWN, MD US 21136 Contact: LANCE TANCRAITOR ltancraitor@gainesandco.com T: (410)833-9833 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

: 19 Apr 2024

: 22 Apr 2024

: 24 Apr 2024 - Sean Felton

Tested

Diagnosed

Certificate L2367

Submitted By: BRANDY BADING Page 2 of 2