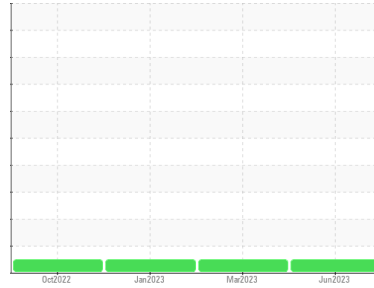


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
Cozzi MH1
 Machine Id
SANY 405K Sany SW405K SW4054CB00668
 Component
Front Differential
 Fluid
CITGO PREMIUM GEAR 80W90 (--- GAL)

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

| SAMPLE INFORMATION | | method | limit/base | current | history 1 | history 2 |
|--------------------|-------------|-------------|------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | | PCA0094870 | LW0006779 | LW0006549 |
| Sample Date | Client Info | | | 28 Jun 2023 | 24 Mar 2023 | 19 Jan 2023 |
| Machine Age | hrs | Client Info | | 2020 | 1470 | 0 |
| Oil Age | hrs | Client Info | | 2020 | 1470 | 0 |
| Oil Changed | Client Info | | | Not Chngd | Not Chngd | Not Chngd |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

| WEAR METALS | | method | limit/base | current | history 1 | history 2 |
|-------------|-----|-------------|------------|--------------|-----------|-----------|
| Iron | ppm | ASTM D5185m | >500 | 274 | 265 | 191 |
| Chromium | ppm | ASTM D5185m | >10 | 1 | 1 | <1 |
| Nickel | ppm | ASTM D5185m | >10 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | <1 | <1 | 2 |
| Lead | ppm | ASTM D5185m | >25 | 0 | <1 | 2 |
| Copper | ppm | ASTM D5185m | >100 | 61 | 49 | 60 |
| Tin | ppm | ASTM D5185m | >10 | 5 | 3 | 3 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |

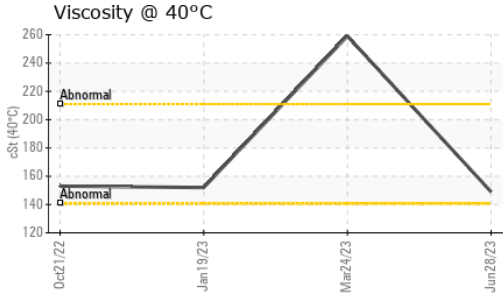
| ADDITIVES | | method | limit/base | current | history 1 | history 2 |
|------------|-----|-------------|------------|--------------|-----------|-----------|
| Boron | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | 4 | 1 | 15 |
| Molybdenum | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Manganese | ppm | ASTM D5185m | | 5 | 5 | 4 |
| Magnesium | ppm | ASTM D5185m | | <1 | 2 | 3 |
| Calcium | ppm | ASTM D5185m | | 9 | 8 | 9 |
| Phosphorus | ppm | ASTM D5185m | | 608 | 558 | 557 |
| Zinc | ppm | ASTM D5185m | | 27 | 35 | 52 |
| Sulfur | ppm | ASTM D5185m | | 28269 | 21711 | 23360 |

| CONTAMINANTS | | method | limit/base | current | history 1 | history 2 |
|--------------|-----|-------------|------------|----------|-----------|-----------|
| Silicon | ppm | ASTM D5185m | >75 | 3 | 3 | 3 |
| Sodium | ppm | ASTM D5185m | | 7 | 7 | 7 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 3 | 2 |

| VISUAL | | method | limit/base | current | history 1 | history 2 |
|------------------|--------|---------|------------|--------------|-----------|-----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| 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 | >.2 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |

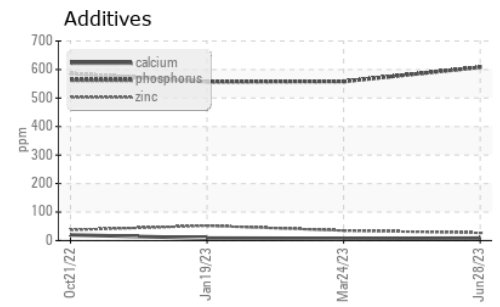
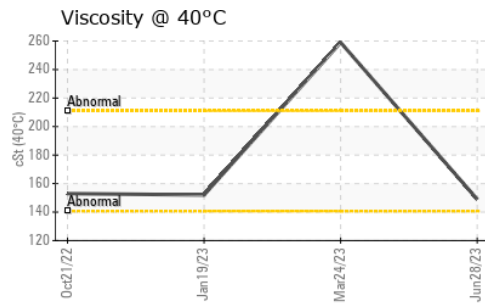
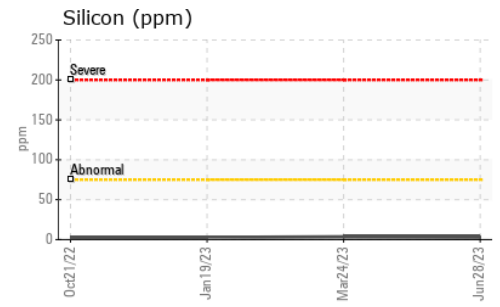
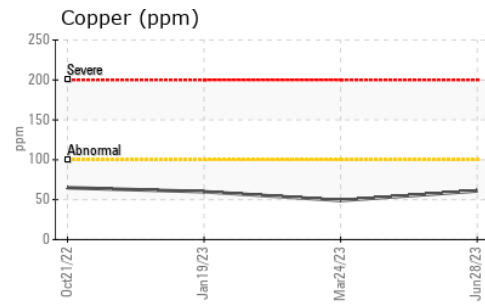
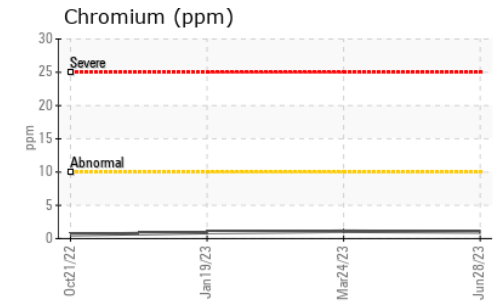
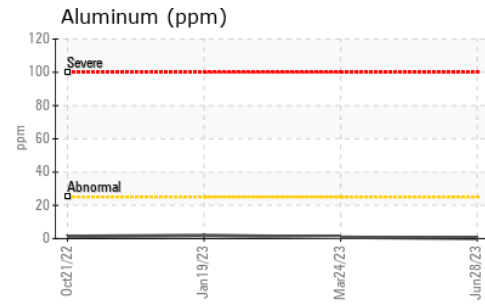
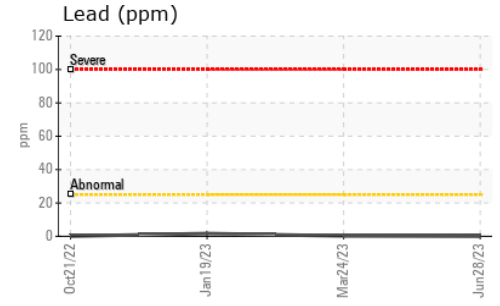
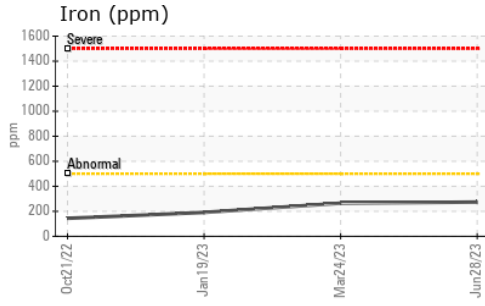
| FLUID PROPERTIES | | method | limit/base | current | history 1 | history 2 |
|------------------|-----|-----------|------------|------------|-----------|-----------|
| Visc @ 40°C | cSt | ASTM D445 | | 149 | 259 | 152 |

OIL ANALYSIS REPORT



| SAMPLE IMAGES | method | limit/base | current | history 1 | history 2 |
|---------------|--------|------------|----------|-----------|-----------|
| 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. : PCA0094870 **Received** : 03 Jul 2023
Lab Number : 05889469 **Diagnosed** : 06 Jul 2023
Unique Number : 10539952 **Diagnostician** : Sean Felton
Test Package : MOB 1

CHICAGO MACHINERY INC
 3142 EAST LINCOLN
 LYNWOOD, IL
 US 60411-7728
 Contact: Mike Korbek
 mike@chicagomachineryinc.com
 T: (708)758-2060
 F:

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)