



PROBLEM SUMMARY

Sample Rating Trend

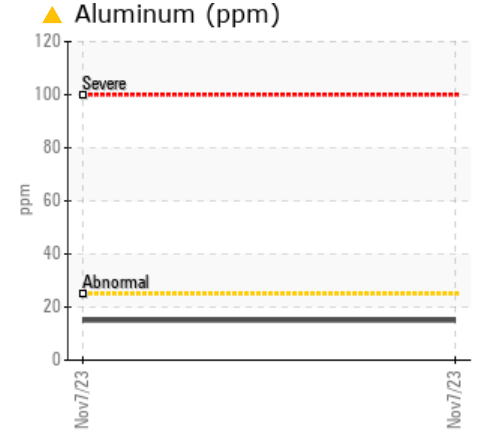
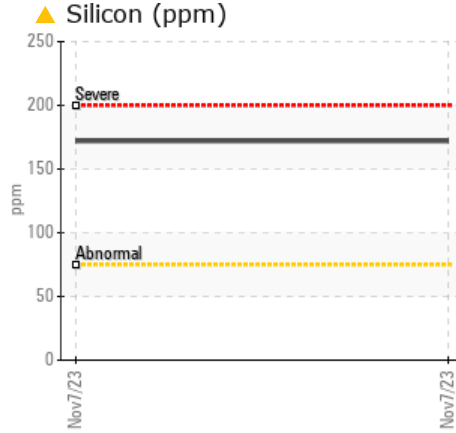
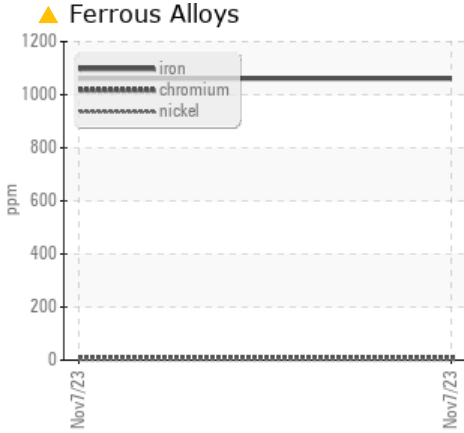


Machine Id
60172

Component
Rear Differential

Fluid
GEAR OIL SAE 75W90 (--- QTS)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

| Sample Status | | | | ABNORMAL | --- | --- |
|---------------|-----|-------------|------|-----------------|-----|-----|
| Iron | ppm | ASTM D5185m | >500 | ▲ 1061 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >25 | ▲ 15 | --- | --- |
| Silicon | ppm | ASTM D5185m | >75 | ▲ 172 | --- | --- |

Customer Id: GREGRETN
 Sample No.: WC0867833
 Lab Number: 06013533
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Sean Felton +1 919-379-4092
sfelton@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

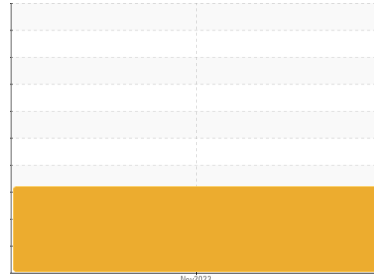
| Action | Status | Date | Done By | Description |
|-------------------|--------|------|---------|---|
| Change Fluid | --- | --- | ? | Oil and filter change at the time of sampling has been noted. |
| Change Filter | --- | --- | ? | Oil and filter change at the time of sampling has been noted. |
| Check Dirt Access | --- | --- | ? | We advise that you check all areas where dirt can enter the system. |

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
60172

Component

Rear Differential

Fluid

GEAR OIL SAE 75W90 (--- QTS)

DIAGNOSIS

▲ Recommendation

We advise that you check all areas where dirt can enter the system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

▲ Wear

Gear wear is indicated.

▲ Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition

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

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|----------|----------|
| Sample Number | Client Info | | WC0867833 | --- | --- |
| Sample Date | Client Info | | 07 Nov 2023 | --- | --- |
| Machine Age | mls | Client Info | 20890 | --- | --- |
| Oil Age | mls | Client Info | 125337 | --- | --- |
| Oil Changed | Client Info | | Changed | --- | --- |
| Sample Status | | | ABNORMAL | --- | --- |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >.2 | NEG | --- | --- |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|------------------|---------------|----------|----------|
| Iron | ppm | ASTM D5185m >500 | ▲ 1061 | --- | --- |
| Chromium | ppm | ASTM D5185m >10 | 7 | --- | --- |
| Nickel | ppm | ASTM D5185m >10 | 2 | --- | --- |
| Titanium | ppm | ASTM D5185m | <1 | --- | --- |
| Silver | ppm | ASTM D5185m | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m >25 | ▲ 15 | --- | --- |
| Lead | ppm | ASTM D5185m >25 | 6 | --- | --- |
| Copper | ppm | ASTM D5185m >100 | 35 | --- | --- |
| Tin | ppm | ASTM D5185m >10 | 2 | --- | --- |
| Vanadium | ppm | ASTM D5185m | 0 | --- | --- |
| Cadmium | ppm | ASTM D5185m | 0 | --- | --- |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|-------------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m 400 | 235 | --- | --- |
| Barium | ppm | ASTM D5185m 200 | 2 | --- | --- |
| Molybdenum | ppm | ASTM D5185m 12 | 0 | --- | --- |
| Manganese | ppm | ASTM D5185m | 10 | --- | --- |
| Magnesium | ppm | ASTM D5185m 12 | 33 | --- | --- |
| Calcium | ppm | ASTM D5185m 150 | 98 | --- | --- |
| Phosphorus | ppm | ASTM D5185m 1650 | 1414 | --- | --- |
| Zinc | ppm | ASTM D5185m 125 | 80 | --- | --- |
| Sulfur | ppm | ASTM D5185m 22500 | 23780 | --- | --- |

CONTAMINANTS

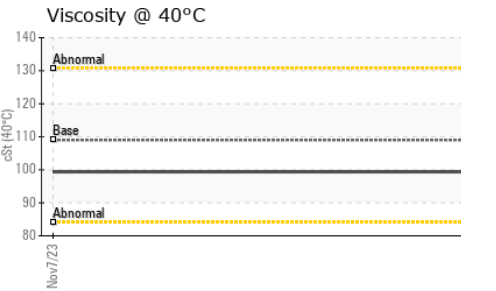
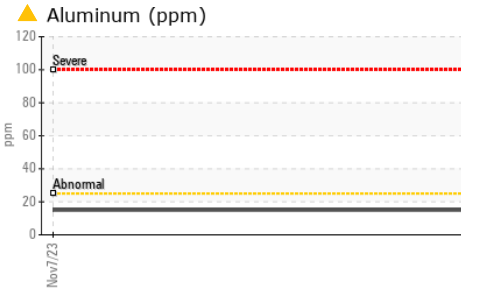
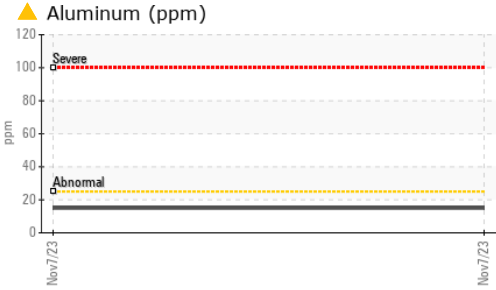
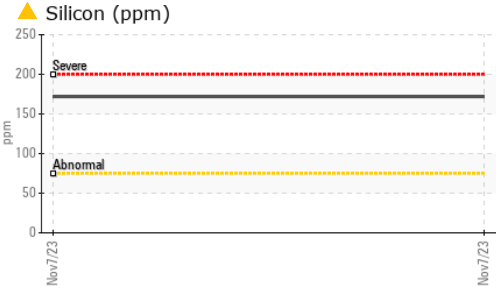
| | method | limit/base | current | history1 | history2 |
|-----------|--------|-----------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m >75 | ▲ 172 | --- | --- |
| Sodium | ppm | ASTM D5185m | 22 | --- | --- |
| Potassium | ppm | ASTM D5185m >20 | 2 | --- | --- |

VISUAL

| | method | limit/base | current | history1 | history2 |
|------------------|--------|---------------|--------------|----------|----------|
| White Metal | scalar | *Visual NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual NONE | NONE | --- | --- |
| Precipitate | scalar | *Visual NONE | NONE | --- | --- |
| 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 >.2 | NEG | --- | --- |
| Free Water | scalar | *Visual | NEG | --- | --- |



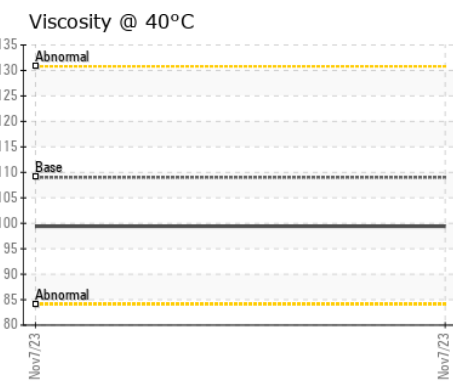
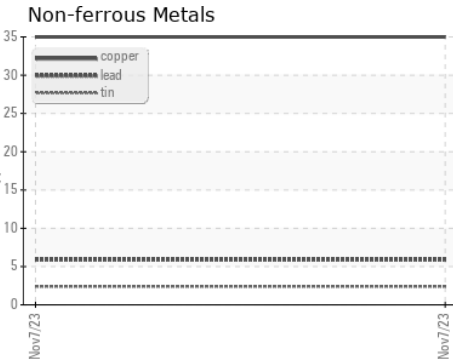
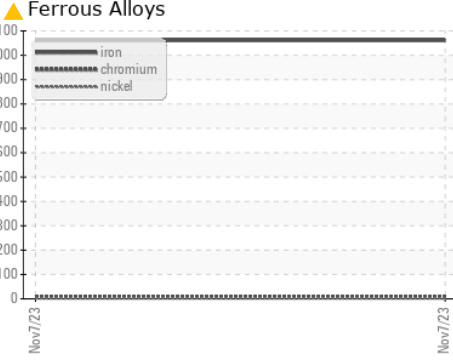
OIL ANALYSIS REPORT



| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|-------------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 109 | 99.4 | --- |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
| Color | | | | no image | no image |
| Bottom | | | | no image | no image |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0867833
Lab Number : 06013533
Unique Number : 10752677
Test Package : FLEET

GREENEVILLE OIL & PETROLEUM INC
 860 WEST ANDREW JOHNSON HWY
 GREENEVILLE, TN
 US 37745
 Contact: SHOP
 shop@burkharterterprises.com
 T:
 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)