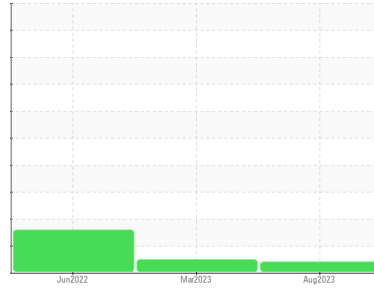


PROBLEM SUMMARY

Sample Rating Trend



VIS DEBRIS



Machine Id
DT688
 Component
Front Differential
 Fluid
GEAR OIL SAE 75W90 (--- GAL)

COMPONENT CONDITION SUMMARY

No relevant graphs to display

RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

| Sample Status | | | | ABNORMAL | NORMAL | ABNORMAL |
|---------------|--------|---------|------|-----------------|--------|----------|
| Debris | scalar | *Visual | NONE | ▲ MODER | NONE | NONE |

Customer Id: NWWCOL
Sample No.: PCA0099991
Lab Number: 05923829
Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

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

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

06 Mar 2023 Diag: Sean Felton

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



29 Jun 2022 Diag: Don Baldrige

DIRT



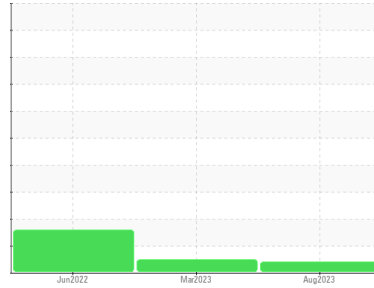
No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material. The condition of the oil is acceptable for the time in service.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



VIS DEBRIS



Machine Id
DT688
 Component
Front Differential
 Fluid
GEAR OIL SAE 75W90 (--- GAL)

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil.

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 | PCA0099991 | PCA0092526 | PCA0075859 |
| Sample Date | Client Info | 07 Aug 2023 | 06 Mar 2023 | 29 Jun 2022 |
| Machine Age | mls | Client Info | 0 | 178315 |
| Oil Age | mls | Client Info | 0 | 0 |
| Oil Changed | Client Info | N/A | N/A | N/A |
| Sample Status | | ABNORMAL | NORMAL | ABNORMAL |

WEAR METALS

| method | limit/base | current | history1 | history2 | |
|----------|------------|------------------|--------------|----------|-----|
| Iron | ppm | ASTM D5185m >500 | 218 | 159 | 234 |
| Chromium | ppm | ASTM D5185m >10 | 2 | 1 | 2 |
| Nickel | ppm | ASTM D5185m >10 | 6 | 5 | 10 |
| Titanium | ppm | ASTM D5185m | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m | 0 | <1 | <1 |
| Aluminum | ppm | ASTM D5185m >25 | 12 | 8 | 18 |
| Lead | ppm | ASTM D5185m >25 | 0 | <1 | 0 |
| Copper | ppm | ASTM D5185m >100 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185m >10 | 0 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | 0 |

ADDITIVES

| method | limit/base | current | history1 | history2 | |
|------------|------------|-------------------|--------------|----------|-------|
| Boron | ppm | ASTM D5185m 400 | 220 | 212 | 254 |
| Barium | ppm | ASTM D5185m 200 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m 12 | 7 | 7 | 2 |
| Manganese | ppm | ASTM D5185m | 2 | 2 | 3 |
| Magnesium | ppm | ASTM D5185m 12 | 79 | 80 | 10 |
| Calcium | ppm | ASTM D5185m 150 | 161 | 163 | 28 |
| Phosphorus | ppm | ASTM D5185m 1650 | 1323 | 1274 | 1320 |
| Zinc | ppm | ASTM D5185m 125 | 137 | 128 | 22 |
| Sulfur | ppm | ASTM D5185m 22500 | 23159 | 25056 | 25056 |

CONTAMINANTS

| method | limit/base | current | history1 | history2 | |
|-----------|------------|-----------------|--------------|----------|-------|
| Silicon | ppm | ASTM D5185m >75 | 71 | 61 | ▲ 111 |
| Sodium | ppm | ASTM D5185m | <1 | 1 | 2 |
| Potassium | ppm | ASTM D5185m >20 | 2 | 1 | 0 |

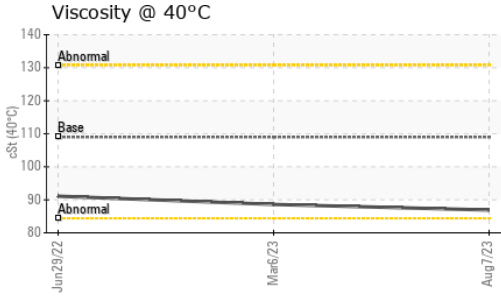
VISUAL

| method | limit/base | current | history1 | history2 | |
|------------------|------------|---------------|----------------|----------|-------|
| White Metal | scalar | *Visual NONE | NONE | MODER | 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 | ▲ MODER | 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

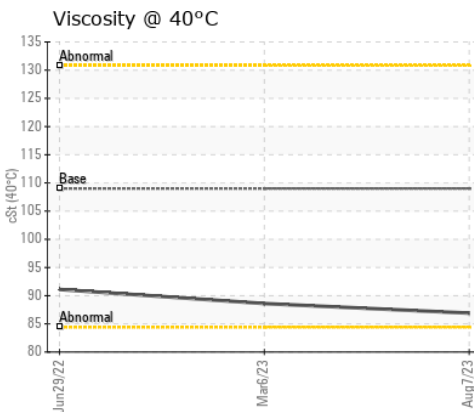
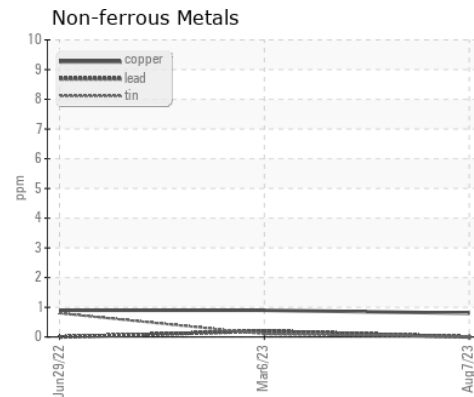
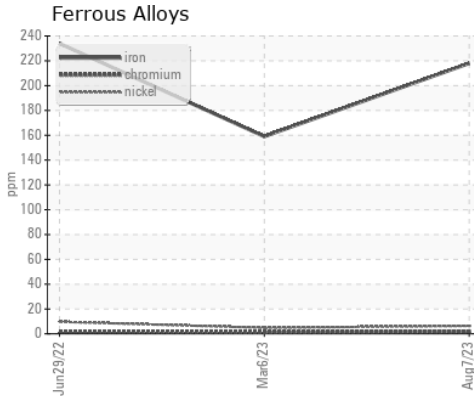
| method | limit/base | current | history1 | history2 | |
|-------------|------------|---------------|-------------|----------|------|
| Visc @ 40°C | cSt | ASTM D445 109 | 86.9 | 88.6 | 91.1 |

OIL ANALYSIS REPORT



| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|----------|----------|----------|
| 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. : PCA0099991 **Received** : 14 Aug 2023
Lab Number : 05923829 **Diagnosed** : 15 Aug 2023
Unique Number : 10603776 **Diagnostician** : Don Baldridge
Test Package : FLEET

NW WHITE & CO - COLUMBIA DIVISION
 100 INDEPENDENCE BLVD
 COLUMBIA, SC
 US 29210
 Contact: GEORGE EDWARDS
 gedwards@nwwhite.com

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)

T:
F: