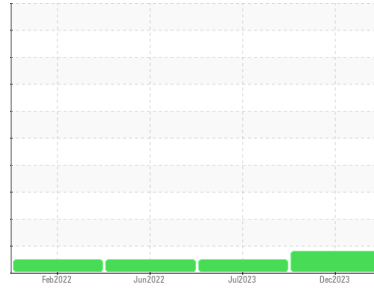


OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
DT779

Component
Front Axle

Fluid
CHEVRON RPM SYNTHETIC GEAR 75W90 (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

The copper level is abnormal. All other 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 | history1 | history2 | |
|---------------|-------------|--------------------|---------------|-------------|---|
| Sample Number | Client Info | PCA0114673 | PCA0100021 | PCA0075875 | |
| Sample Date | Client Info | 12 Dec 2023 | 24 Jul 2023 | 28 Jun 2022 | |
| Machine Age | mls | Client Info | 154121 | 128127 | 0 |
| Oil Age | mls | Client Info | 154121 | 128127 | 0 |
| Oil Changed | Client Info | Changed | N/A | N/A | |
| Sample Status | | ABNORMAL | NORMAL | NORMAL | |

CONTAMINATION

| method | limit/base | current | history1 | history2 | |
|--------|------------|---------|------------|----------|-----|
| Water | WC Method | >0.2 | NEG | NEG | NEG |

WEAR METALS

| method | limit/base | current | history1 | history2 | | |
|----------|------------|-------------|----------|--------------|-----|-----|
| Iron | ppm | ASTM D5185m | >500 | 183 | 188 | 148 |
| Chromium | ppm | ASTM D5185m | >10 | 1 | 2 | 1 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 4 | 11 | 2 |
| Lead | ppm | ASTM D5185m | >25 | <1 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >50 | 87 | 2 | <1 |
| Tin | ppm | ASTM D5185m | >10 | <1 | 0 | <1 |
| Antimony | ppm | ASTM D5185m | >5 | --- | --- | --- |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |

ADDITIVES

| method | limit/base | current | history1 | history2 | | |
|------------|------------|-------------|----------|--------------|-------|-------|
| Boron | ppm | ASTM D5185m | | 210 | 239 | 260 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 1 |
| Molybdenum | ppm | ASTM D5185m | | 9 | 9 | <1 |
| Manganese | ppm | ASTM D5185m | | 6 | 3 | 5 |
| Magnesium | ppm | ASTM D5185m | | 105 | 116 | <1 |
| Calcium | ppm | ASTM D5185m | | 202 | 234 | 11 |
| Phosphorus | ppm | ASTM D5185m | | 1299 | 1335 | 1308 |
| Zinc | ppm | ASTM D5185m | | 184 | 202 | 15 |
| Sulfur | ppm | ASTM D5185m | | 20044 | 24736 | 22781 |

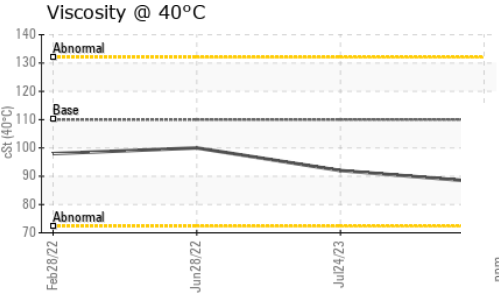
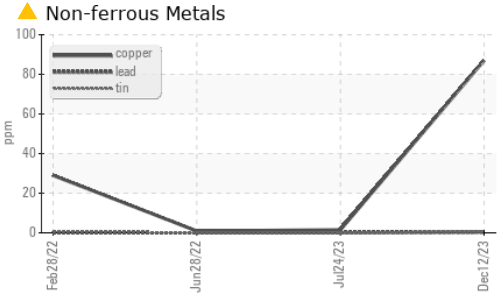
CONTAMINANTS

| method | limit/base | current | history1 | history2 | | |
|-----------|------------|-------------|----------|-----------|----|----|
| Silicon | ppm | ASTM D5185m | >75 | 49 | 38 | 28 |
| Sodium | ppm | ASTM D5185m | | 3 | 3 | 7 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 4 | 0 |

VISUAL

| method | limit/base | current | history1 | history2 | | |
|------------------|------------|---------|----------|--------------|-------|-------|
| 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 | MODER | 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 | >0.2 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |

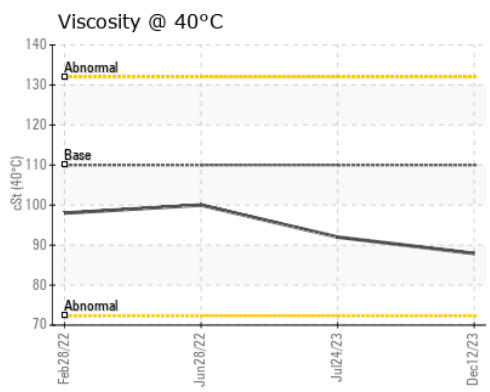
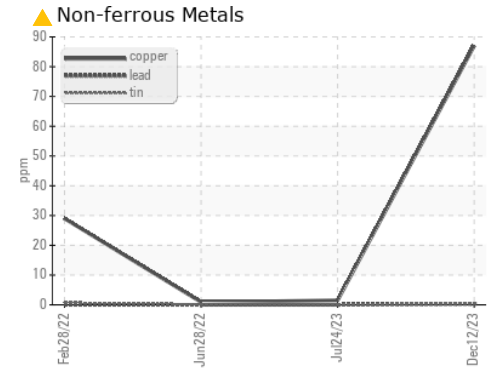
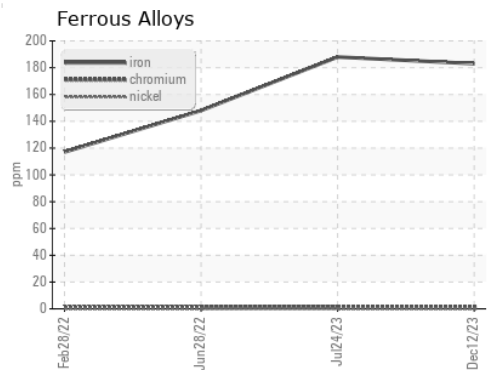
OIL ANALYSIS REPORT



| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|------------------|-----|-----------|------------|-------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 110 | 87.9 | 92.0 | 100 |

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0114673 **Received** : 21 Dec 2023
Lab Number : **06042740** **Diagnosed** : 24 Dec 2023
Unique Number : 10803348 **Diagnostician** : Don Baldrige
Test Package : FLEET

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

Certificate L2367
 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)