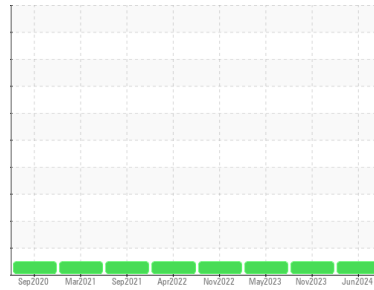


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id

**DT38**

Component

**Rear Differential**

Fluid

**CHEVRON DELO SYNTHETIC GEAR 75W90 (--- QTS)**

## 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            | history1    | history2    |
|--------------------|-------------|-------------|------------|--------------------|-------------|-------------|
| Sample Number      | Client Info |             |            | <b>PCA0116155</b>  | PCA0090322  | PCA0098264  |
| Sample Date        | Client Info |             |            | <b>27 Jun 2024</b> | 07 Nov 2023 | 08 May 2023 |
| Machine Age        | mls         | Client Info |            | <b>210975</b>      | 179319      | 155169      |
| Oil Age            | mls         | Client Info |            | <b>210975</b>      | 75000       | 155169      |
| Oil Changed        | Client Info |             |            | <b>Not Chngd</b>   | N/A         | Changed     |
| Sample Status      |             |             |            | <b>NORMAL</b>      | NORMAL      | NORMAL      |

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

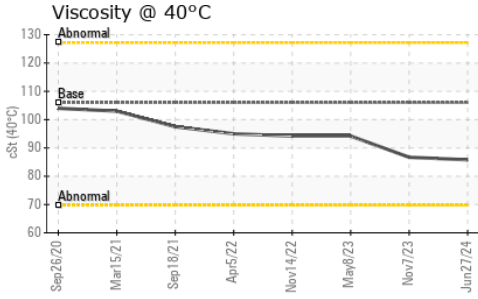
| WEAR METALS |     | method      | limit/base | current      | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185m | >500       | <b>157</b>   | 56       | 134      |
| Chromium    | ppm | ASTM D5185m | >10        | <b>2</b>     | <1       | 1        |
| Nickel      | ppm | ASTM D5185m | >10        | <b>&lt;1</b> | <1       | 0        |
| Titanium    | ppm | ASTM D5185m |            | <b>&lt;1</b> | 0        | <1       |
| Silver      | ppm | ASTM D5185m |            | <b>&lt;1</b> | 0        | 0        |
| Aluminum    | ppm | ASTM D5185m | >25        | <b>5</b>     | 1        | <1       |
| Lead        | ppm | ASTM D5185m | >25        | <b>&lt;1</b> | 0        | 0        |
| Copper      | ppm | ASTM D5185m | >100       | <b>3</b>     | 0        | <1       |
| Tin         | ppm | ASTM D5185m | >10        | <b>&lt;1</b> | <1       | 0        |
| Vanadium    | ppm | ASTM D5185m |            | <b>&lt;1</b> | 0        | 0        |
| Cadmium     | ppm | ASTM D5185m |            | <b>&lt;1</b> | 0        | 0        |

| ADDITIVES  |     | method      | limit/base | current      | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron      | ppm | ASTM D5185m |            | <b>219</b>   | 245      | 233      |
| Barium     | ppm | ASTM D5185m |            | <b>&lt;1</b> | 0        | 0        |
| Molybdenum | ppm | ASTM D5185m |            | <b>12</b>    | 11       | 7        |
| Manganese  | ppm | ASTM D5185m |            | <b>4</b>     | 2        | 6        |
| Magnesium  | ppm | ASTM D5185m |            | <b>123</b>   | 144      | 82       |
| Calcium    | ppm | ASTM D5185m |            | <b>225</b>   | 219      | 110      |
| Phosphorus | ppm | ASTM D5185m |            | <b>1314</b>  | 1441     | 1398     |
| Zinc       | ppm | ASTM D5185m |            | <b>211</b>   | 215      | 114      |
| Sulfur     | ppm | ASTM D5185m |            | <b>18517</b> | 22089    | 26978    |

| CONTAMINANTS |     | method      | limit/base | current      | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >75        | <b>46</b>    | 20       | 15       |
| Sodium       | ppm | ASTM D5185m |            | <b>&lt;1</b> | 1        | 3        |
| Potassium    | ppm | ASTM D5185m | >20        | <b>3</b>     | 1        | 2        |

| VISUAL           |        | method  | limit/base | current      | history1 | history2 |
|------------------|--------|---------|------------|--------------|----------|----------|
| White Metal      | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | NONE     |
| Yellow Metal     | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | NONE     |
| Precipitate      | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | NONE     |
| Silt             | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | NONE     |
| Debris           | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | NONE     |
| Sand/Dirt        | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | NONE     |
| Appearance       | scalar | *Visual | NORML      | <b>NORML</b> | NORML    | NORML    |
| Odor             | scalar | *Visual | NORML      | <b>NORML</b> | NORML    | NORML    |
| Emulsified Water | scalar | *Visual | >.2        | <b>NEG</b>   | NEG      | NEG      |
| Free Water       | scalar | *Visual |            | <b>NEG</b>   | NEG      | NEG      |

# OIL ANALYSIS REPORT



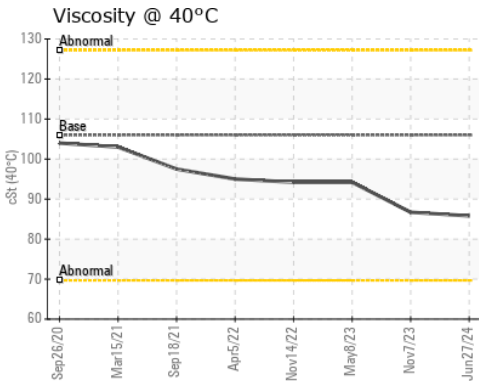
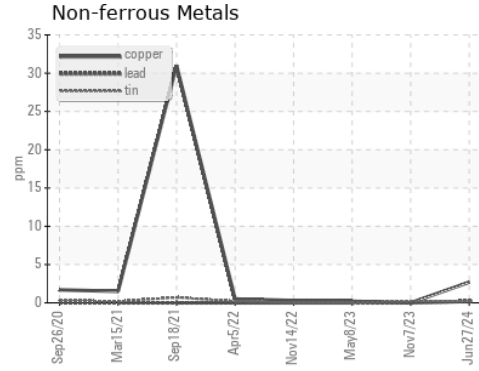
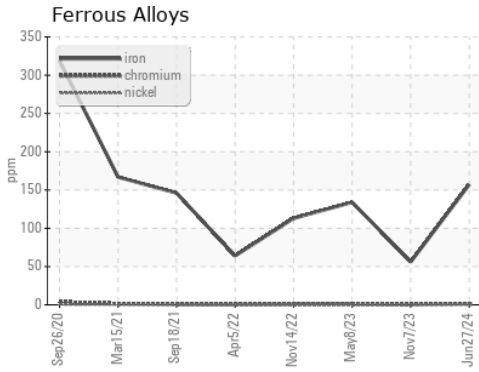
## FLUID PROPERTIES

| method      | limit/base    | current | history1    | history2 |      |
|-------------|---------------|---------|-------------|----------|------|
| Visc @ 40°C | cSt ASTM D445 | 106     | <b>85.8</b> | 86.7     | 94.2 |

## 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.** : PCA0116155      **Received** : 01 Jul 2024  
**Lab Number** : **06224869**      **Tested** : 02 Jul 2024  
**Unique Number** : 11103066      **Diagnosed** : 02 Jul 2024 - Wes Davis  
**Test Package** : FLEET

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)

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