



|                 |               |
|-----------------|---------------|
| WEAR            | <b>NORMAL</b> |
| CONTAMINATION   | <b>NORMAL</b> |
| FLUID CONDITION | <b>NORMAL</b> |

Machine Id  
**DT37**  
 Component  
**Front Differential**  
 Fluid  
**CHEVRON DELO SYNTHETIC GEAR 75W90 (--- QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>PCA0090350</b>  | PCA0098173  | PCA0058904  |
| Sample Date    |     | Client Info |           | <b>10 Jan 2024</b> | 20 Jun 2023 | 06 Oct 2021 |
| Machine Age    | mls | Client Info |           | <b>156244</b>      | 129400      | 75986       |
| Oil Age        | mls | Client Info |           | <b>0</b>           | 75000       | 75000       |
| Filter Age     | mls | Client Info |           | <b>0</b>           | 75000       | 75000       |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | Not Changd  | Changed     |
| Filter Changed |     | Client Info |           | <b>Changed</b>     | Not Changd  | Not Changd  |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

**WEAR**

All component wear rates are normal.

|              |        |             |      |              |      |       |
|--------------|--------|-------------|------|--------------|------|-------|
| Iron         | ppm    | ASTM D5185m | >500 | <b>93</b>    | 70   | 113   |
| Chromium     | ppm    | ASTM D5185m | >10  | <b>&lt;1</b> | <1   | <1    |
| Nickel       | ppm    | ASTM D5185m | >10  | <b>&lt;1</b> | 1    | <1    |
| Titanium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | 0    | <1    |
| Silver       | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0     |
| Aluminum     | ppm    | ASTM D5185m | >25  | <b>2</b>     | <1   | 3     |
| Lead         | ppm    | ASTM D5185m | >25  | <b>&lt;1</b> | <1   | <1    |
| Copper       | ppm    | ASTM D5185m | >100 | <b>17</b>    | 12   | 46    |
| Tin          | ppm    | ASTM D5185m | >10  | <b>&lt;1</b> | <1   | <1    |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0     |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | MODER |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE  |

**CONTAMINATION**

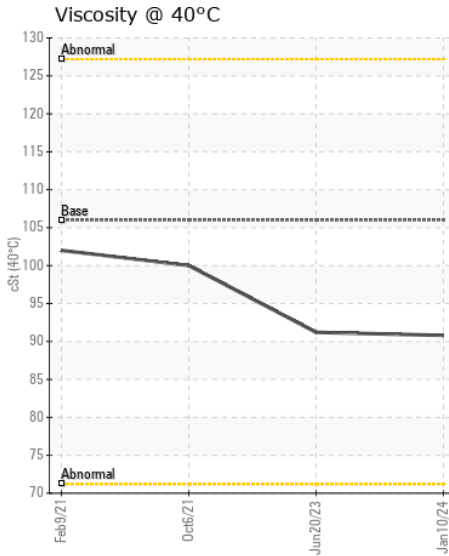
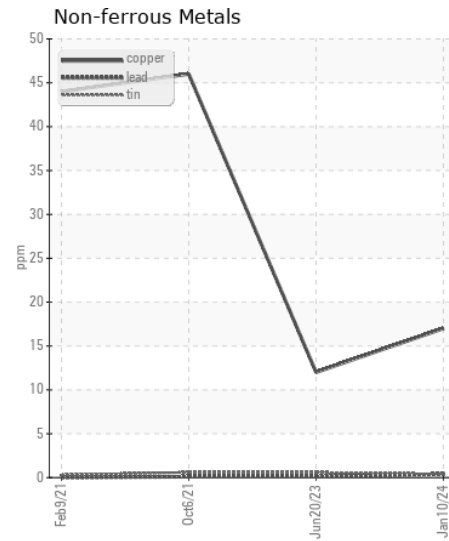
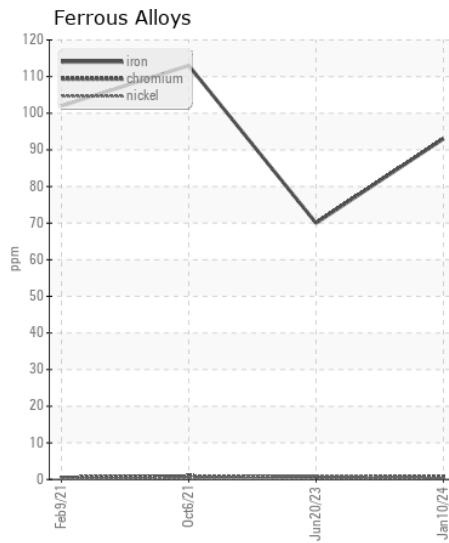
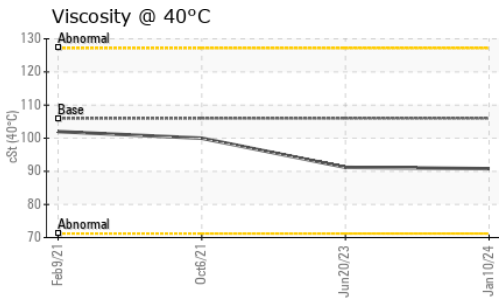
There is no indication of any contamination in the oil.

|                  |        |             |       |              |       |       |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >75   | <b>18</b>    | 15    | 38    |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>2</b>     | 3     | 2     |
| Water            |        | WC Method   | >.2   | <b>NEG</b>   | NEG   | NEG   |
| Silt             | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Debris           | scalar | *Visual     | NONE  | <b>NONE</b>  | LIGHT | 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   |

**FLUID CONDITION**

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

|             |     |             |     |              |       |       |
|-------------|-----|-------------|-----|--------------|-------|-------|
| Sodium      | ppm | ASTM D5185m |     | <b>0</b>     | 3     | 7     |
| Boron       | ppm | ASTM D5185m |     | <b>297</b>   | 249   | 269   |
| Barium      | ppm | ASTM D5185m |     | <b>3</b>     | 0     | 2     |
| Molybdenum  | ppm | ASTM D5185m |     | <b>8</b>     | 7     | <1    |
| Manganese   | ppm | ASTM D5185m |     | <b>6</b>     | 5     | 17    |
| Magnesium   | ppm | ASTM D5185m |     | <b>84</b>    | 83    | 3     |
| Calcium     | ppm | ASTM D5185m |     | <b>111</b>   | 108   | 5     |
| Phosphorus  | ppm | ASTM D5185m |     | <b>1384</b>  | 1452  | 1405  |
| Zinc        | ppm | ASTM D5185m |     | <b>116</b>   | 112   | 2     |
| Sulfur      | ppm | ASTM D5185m |     | <b>24748</b> | 29288 | 22866 |
| Visc @ 40°C | cSt | ASTM D445   | 106 | <b>90.8</b>  | 91.2  | 100   |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0090350 **Received** : 12 Jan 2024  
**Lab Number** : 06059676 **Diagnosed** : 14 Jan 2024  
**Unique Number** : 10831058 **Diagnostician** : 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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