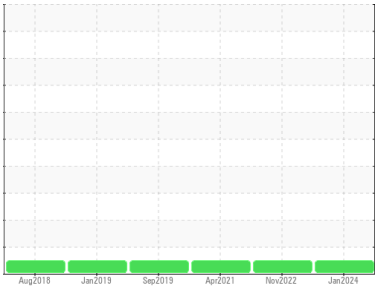
# OIL ANALYSIS REPORT

Sample Rating Trend




NORMAL

Machine Id
**DT608**
Component
**Front Differential**
Fluid
**CHEVRON RPM SYNTHETIC GEAR 75W90 (4 mls)**

## 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 | | **PCA0089115** | PCA0080445 | PCA0045188 |
| Sample Date | | Client Info | | **25 Jan 2024** | 28 Nov 2022 | 14 Apr 2021 |
| Machine Age | mls | Client Info | | **229446** | 191474 | 0 |
| Oil Age | mls | Client Info | | **67481** | 0 | 0 |
| Oil Changed | | Client Info | | **Changed** | N/A | Not Changd |
| Sample Status | | | | **NORMAL** | NORMAL | NORMAL |

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

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185m | >1200 | **350** | 190 | 134 |
| Chromium | ppm | ASTM D5185m | >8 | **2** | 1 | 2 |
| Nickel | ppm | ASTM D5185m | >20 | **<1** | <1 | <1 |
| Titanium | ppm | ASTM D5185m | >4 | **<1** | <1 | <1 |
| Silver | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >30 | **14** | 8 | 7 |
| Lead | ppm | ASTM D5185m | >25 | **0** | 0 | <1 |
| Copper | ppm | ASTM D5185m | >50 | **<1** | 1 | <1 |
| Tin | ppm | ASTM D5185m | >5 | **0** | 0 | 0 |
| Antimony | ppm | ASTM D5185m | >5 | **---** | --- | 0 |
| 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 | | **204** | 232 | 196 |
| Barium | ppm | ASTM D5185m | | **<1** | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | **12** | 12 | <1 |
| Manganese | ppm | ASTM D5185m | | **7** | 4 | 6 |
| Magnesium | ppm | ASTM D5185m | | **74** | 73 | 3 |
| Calcium | ppm | ASTM D5185m | | **193** | 176 | 13 |
| Phosphorus | ppm | ASTM D5185m | | **1478** | 1237 | 1409 |
| Zinc | ppm | ASTM D5185m | | **147** | 137 | 12 |
| Sulfur | ppm | ASTM D5185m | | **23591** | 24210 | 21398 |
| Lithium | ppm | ASTM D5185m | | **---** | --- | --- |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >230 | **49** | 26 | 13 |
| Sodium | ppm | ASTM D5185m | | **2** | 2 | 3 |
| Potassium | ppm | ASTM D5185m | >20 | **2** | 0 | 12 |

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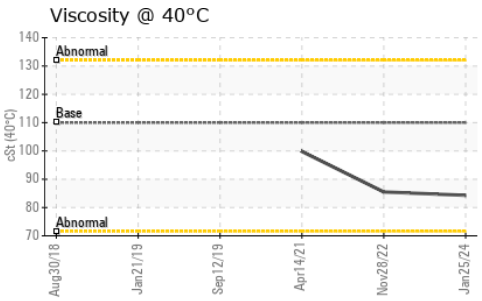
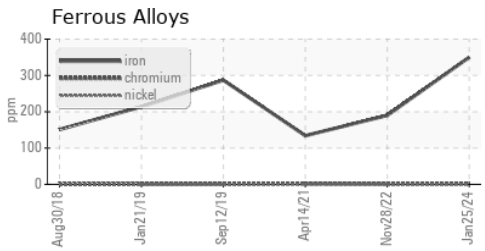


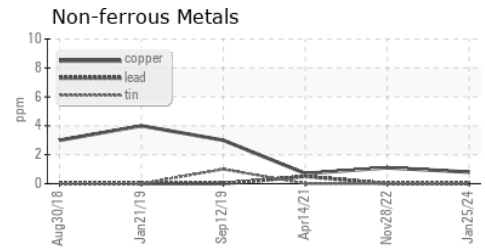

| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| White Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Silt | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Debris | scalar | *Visual | NONE | **NONE** | 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 |

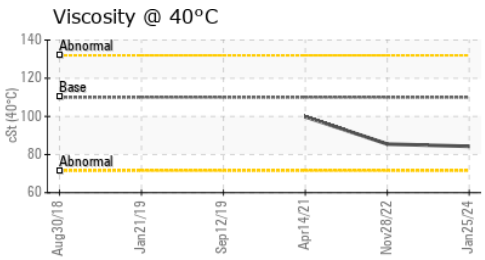
| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D445 | 110 | **84.3** | 85.5 | 99.8 |

| 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.** : PCA0089115
**Lab Number** : 06105532
**Unique Number** : 10903762
**Test Package** : FLEET

**Received** : 29 Feb 2024
**Tested** : 01 Mar 2024
**Diagnosed** : 04 Mar 2024 - Don Baldridge

*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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