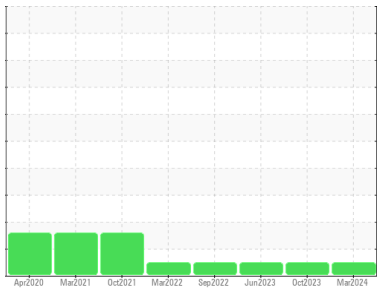
# OIL ANALYSIS REPORT

Sample Rating Trend




NORMAL

Machine Id
**DT682**
Component
**Front Differential**
Fluid
**CHEVRON RPM SYNTHETIC GEAR 75W90 (4 mls)**

## DIAGNOSIS

**Recommendation**
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

**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 | | **PCA0111579** | PCA0101829 | PCA0095242 |
| Sample Date | | Client Info | | **19 Mar 2024** | 24 Oct 2023 | 09 Jun 2023 |
| Machine Age | mls | Client Info | | **22739** | 22739 | 22739 |
| Oil Age | mls | Client Info | | **22739** | 22739 | 22739 |
| Oil Changed | | Client Info | | **N/A** | N/A | N/A |
| 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 | >500 | **310** | 183 | 162 |
| Chromium | ppm | ASTM D5185m | >10 | **3** | <1 | 2 |
| Nickel | ppm | ASTM D5185m | >10 | **7** | 5 | 6 |
| Titanium | ppm | ASTM D5185m | | **<1** | 0 | 0 |
| Silver | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | **7** | 6 | 7 |
| Lead | ppm | ASTM D5185m | >25 | **<1** | 0 | 0 |
| Copper | ppm | ASTM D5185m | >100 | **1** | <1 | <1 |
| Tin | ppm | ASTM D5185m | >10 | **<1** | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | **<1** | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | **<1** | 0 | 0 |

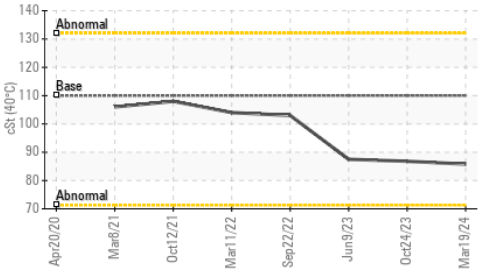
| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185m | | **238** | 194 | 215 |
| Barium | ppm | ASTM D5185m | | **<1** | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | **14** | 12 | 13 |
| Manganese | ppm | ASTM D5185m | | **3** | 2 | 2 |
| Magnesium | ppm | ASTM D5185m | | **67** | 61 | 69 |
| Calcium | ppm | ASTM D5185m | | **155** | 177 | 153 |
| Phosphorus | ppm | ASTM D5185m | | **1486** | 1250 | 1387 |
| Zinc | ppm | ASTM D5185m | | **124** | 124 | 112 |
| Sulfur | ppm | ASTM D5185m | | **25252** | 21147 | 27845 |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >75 | **63** | 57 | 62 |
| Sodium | ppm | ASTM D5185m | | **2** | 2 | 3 |
| Potassium | ppm | ASTM D5185m | >20 | **2** | 1 | 4 |

| 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 | **LIGHT** | 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 |

# OIL ANALYSIS REPORT

Viscosity @ 40°C

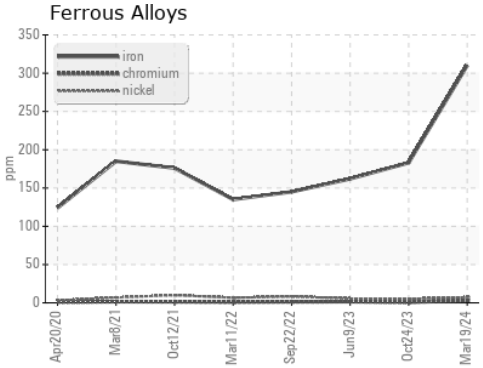



| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D445 | 110 | **85.8** | 86.8 | 87.5 |

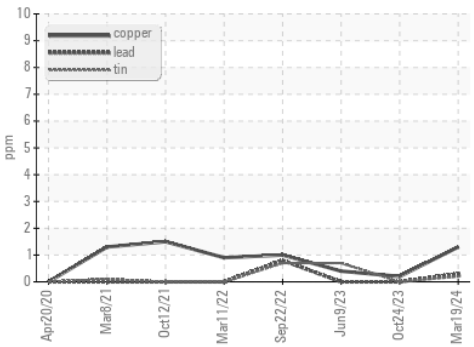
| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | | *no image* | *no image* | *no image* |
| Bottom | | | *no image* | *no image* | *no image* |

## GRAPHS

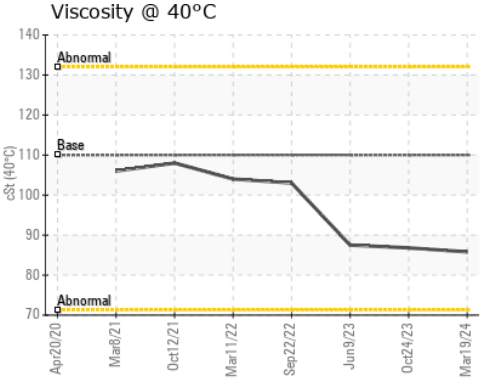
Ferrous Alloys




Non-ferrous Metals




Viscosity @ 40°C




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : PCA0111579
**Lab Number** : 06158013
**Unique Number** : 10993436
**Test Package** : FLEET

**Received** : 23 Apr 2024
**Tested** : 24 Apr 2024
**Diagnosed** : 24 Apr 2024 - Wes Davis

**NW WHITE & CO - BEAUFORT DIVISION**
1491 YENMASSEE HIGHWAY
VARNVILLE, SC
US 29944
Contact: VINCENT BULLOCK
bullockvince514@gmail.com
T:
F:

*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)*