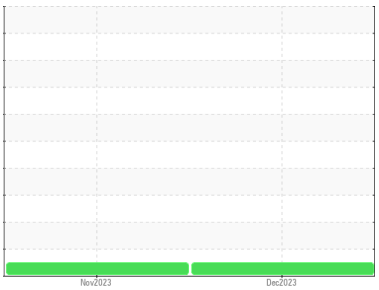
# OIL ANALYSIS REPORT

Sample Rating Trend




NORMAL

Machine Id
**2126893**
Component
**Differential**
Fluid
**GEAR OIL SAE 80 (--- GAL)**

## 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 | | **PCA0112342** | PCA0108096 | --- |
| Sample Date | | Client Info | | **06 Dec 2023** | 07 Nov 2023 | --- |
| Machine Age | hrs | Client Info | | **30** | 30 | --- |
| Oil Age | hrs | Client Info | | **30** | 30 | --- |
| Oil Changed | | Client Info | | **N/A** | N/A | --- |
| Sample Status | | | | **NORMAL** | NORMAL | --- |

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

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185m | >500 | **14** | 157 | --- |
| Chromium | ppm | ASTM D5185m | >10 | **0** | 1 | --- |
| Nickel | ppm | ASTM D5185m | >10 | **0** | 0 | --- |
| Titanium | ppm | ASTM D5185m | | **0** | <1 | --- |
| Silver | ppm | ASTM D5185m | | **0** | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >25 | **1** | 2 | --- |
| Lead | ppm | ASTM D5185m | >25 | **0** | 0 | --- |
| Copper | ppm | ASTM D5185m | >100 | **0** | 3 | --- |
| Tin | ppm | ASTM D5185m | >10 | **0** | <1 | --- |
| Vanadium | ppm | ASTM D5185m | | **0** | <1 | --- |
| Cadmium | ppm | ASTM D5185m | | **0** | 0 | --- |

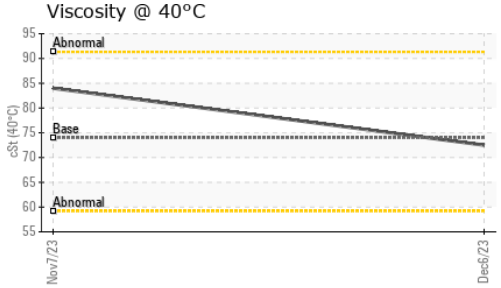
| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185m | 400 | **10** | 192 | --- |
| Barium | ppm | ASTM D5185m | 200 | **0** | 3 | --- |
| Molybdenum | ppm | ASTM D5185m | 12 | **55** | 2 | --- |
| Manganese | ppm | ASTM D5185m | | **<1** | 9 | --- |
| Magnesium | ppm | ASTM D5185m | 12 | **951** | 19 | --- |
| Calcium | ppm | ASTM D5185m | 150 | **1071** | 64 | --- |
| Phosphorus | ppm | ASTM D5185m | 1650 | **1081** | 1471 | --- |
| Zinc | ppm | ASTM D5185m | 125 | **1252** | 56 | --- |
| Sulfur | ppm | ASTM D5185m | 22500 | **3820** | 26310 | --- |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >75 | **5** | 32 | --- |
| Sodium | ppm | ASTM D5185m | | **0** | 3 | --- |
| Potassium | ppm | ASTM D5185m | >20 | **0** | 3 | --- |

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

# OIL ANALYSIS REPORT

Viscosity @ 40°C

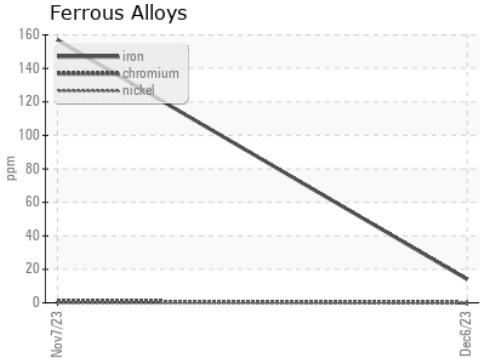



| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D445 | 74 | **72.5** | 84.0 | --- |

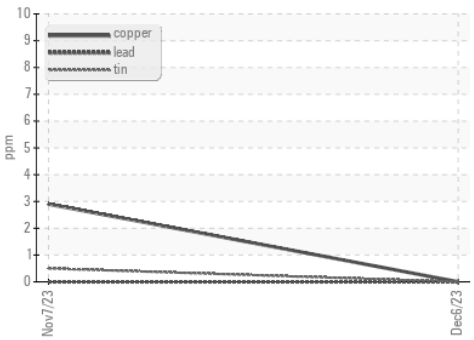
| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | | *no image* | *no image* | *no image* |
| Bottom | | | *no image* | *no image* | *no image* |

## GRAPHS

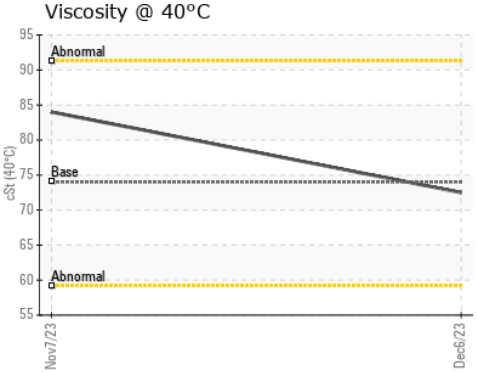
Ferrous Alloys




Non-ferrous Metals




Viscosity @ 40°C




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : PCA0112342 **Recieved** : 12 Dec 2023
**Lab Number** : 06032543 **Diagnosed** : 15 Dec 2023
**Unique Number** : 10782334 **Diagnostician** : Don Baldridge
**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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