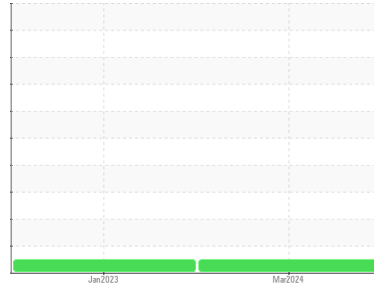




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id

**2**

Component

**Gearbox**

Fluid

**GEAR OIL ISO 150 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The water content is negligible. There is no indication of any contamination in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| SAMPLE INFORMATION |             | method      | limit/base | current            | history1    | history2 |
|--------------------|-------------|-------------|------------|--------------------|-------------|----------|
| Sample Number      | Client Info |             |            | <b>RP0034266</b>   | RP0029529   | ---      |
| Sample Date        | Client Info |             |            | <b>18 Mar 2024</b> | 22 Jan 2023 | ---      |
| Machine Age        | hrs         | Client Info |            | <b>0</b>           | 0           | ---      |
| Oil Age            | hrs         | Client Info |            | <b>0</b>           | 0           | ---      |
| Oil Changed        | Client Info |             |            | <b>N/A</b>         | N/A         | ---      |
| Sample Status      |             |             |            | <b>NORMAL</b>      | NORMAL      | ---      |

| WEAR METALS |     | method      | limit/base | current      | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185m | >200       | <b>180</b>   | 168      | ---      |
| Chromium    | ppm | ASTM D5185m | >15        | <b>2</b>     | 3        | ---      |
| Nickel      | ppm | ASTM D5185m | >15        | <b>&lt;1</b> | 1        | ---      |
| Titanium    | ppm | ASTM D5185m |            | <b>0</b>     | 0        | ---      |
| Silver      | ppm | ASTM D5185m |            | <b>0</b>     | 0        | ---      |
| Aluminum    | ppm | ASTM D5185m | >25        | <b>8</b>     | 7        | ---      |
| Lead        | ppm | ASTM D5185m | >100       | <b>0</b>     | 0        | ---      |
| Copper      | ppm | ASTM D5185m | >200       | <b>11</b>    | 11       | ---      |
| Tin         | ppm | ASTM D5185m | >25        | <b>0</b>     | 0        | ---      |
| Vanadium    | ppm | ASTM D5185m |            | <b>0</b>     | 0        | ---      |
| Cadmium     | ppm | ASTM D5185m |            | <b>2</b>     | 2        | ---      |

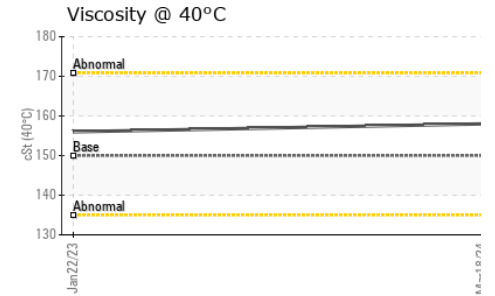
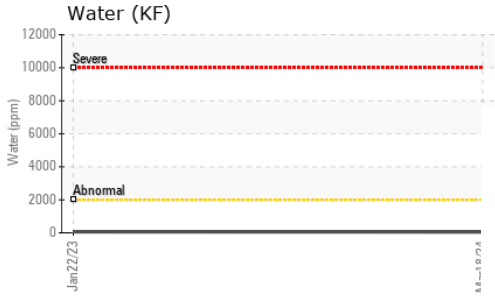
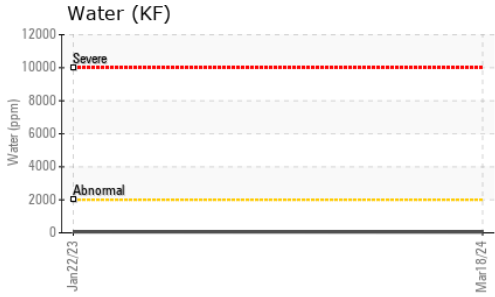
| ADDITIVES  |     | method      | limit/base | current      | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron      | ppm | ASTM D5185m | 50         | <b>0</b>     | 0        | ---      |
| Barium     | ppm | ASTM D5185m | 15         | <b>&lt;1</b> | 1        | ---      |
| Molybdenum | ppm | ASTM D5185m | 15         | <b>0</b>     | <1       | ---      |
| Manganese  | ppm | ASTM D5185m |            | <b>2</b>     | 2        | ---      |
| Magnesium  | ppm | ASTM D5185m | 50         | <b>&lt;1</b> | 2        | ---      |
| Calcium    | ppm | ASTM D5185m | 50         | <b>4</b>     | 5        | ---      |
| Phosphorus | ppm | ASTM D5185m | 350        | <b>646</b>   | 549      | ---      |
| Zinc       | ppm | ASTM D5185m | 100        | <b>30</b>    | 31       | ---      |

| CONTAMINANTS |     | method      | limit/base | current      | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >50        | <b>32</b>    | 27       | ---      |
| Sodium       | ppm | ASTM D5185m |            | <b>&lt;1</b> | <1       | ---      |
| Potassium    | ppm | ASTM D5185m | >20        | <b>0</b>     | <1       | ---      |
| Water        | %   | ASTM D6304  | >0.2       | <b>0.005</b> | 0.006    | ---      |
| ppm Water    | ppm | ASTM D6304  | >2000      | <b>52</b>    | 61.5     | ---      |

| FLUID DEGRADATION |          | method     | limit/base | current     | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN)  | mg KOH/g | ASTM D8045 | 0.85       | <b>0.96</b> | 0.80     | ---      |

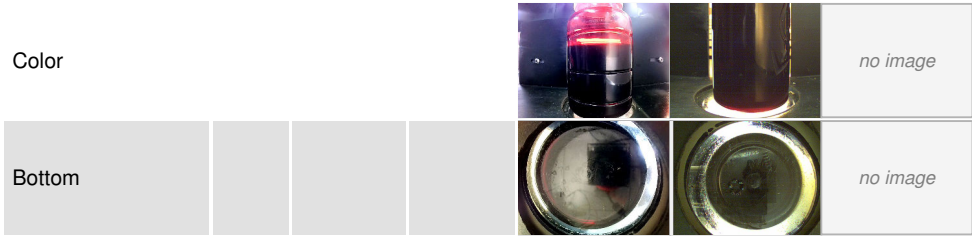
| VISUAL           |        | method  | limit/base | current      | history1 | history2 |
|------------------|--------|---------|------------|--------------|----------|----------|
| White Metal      | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | ---      |
| Yellow Metal     | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | ---      |
| Precipitate      | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | ---      |
| Silt             | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | ---      |
| Debris           | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | ---      |
| Sand/Dirt        | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | ---      |
| Appearance       | scalar | *Visual | NORML      | <b>NORML</b> | NORML    | ---      |
| Odor             | scalar | *Visual | NORML      | <b>NORML</b> | NORML    | ---      |
| Emulsified Water | scalar | *Visual | >0.2       | <b>NEG</b>   | NEG      | ---      |
| Free Water       | scalar | *Visual |            | <b>NEG</b>   | NEG      | ---      |

# OIL ANALYSIS REPORT

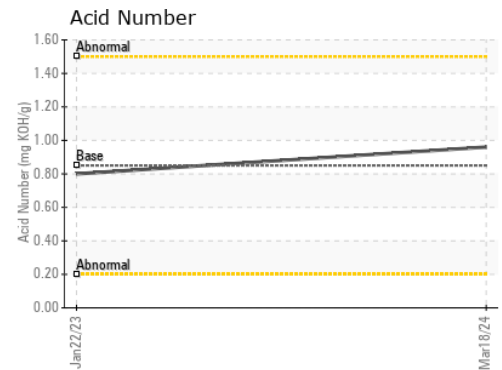
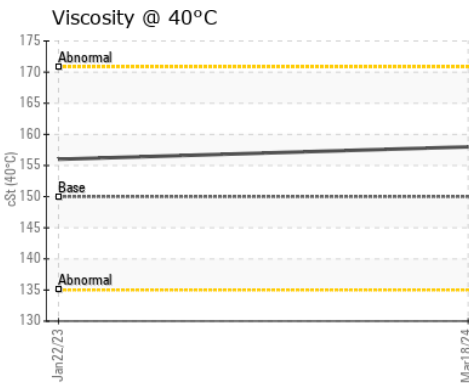
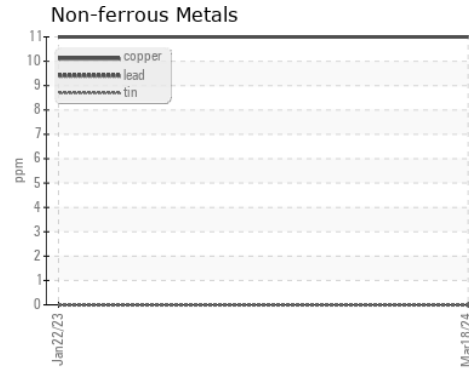
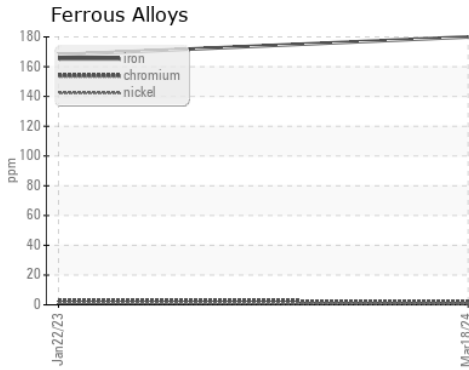


| FLUID PROPERTIES |     | method    | limit/base | current    | history1 | history2 |
|------------------|-----|-----------|------------|------------|----------|----------|
| Visc @ 40°C      | cSt | ASTM D445 | 150        | <b>158</b> | 156      | ---      |

| SAMPLE IMAGES |  | method | limit/base | current | history1 | history2 |
|---------------|--|--------|------------|---------|----------|----------|
|---------------|--|--------|------------|---------|----------|----------|



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0034266 **Received** : 20 Mar 2024  
**Lab Number** : **06124338** **Tested** : 21 Mar 2024  
**Unique Number** : 10938489 **Diagnosed** : 23 Mar 2024 - Don Baldrige  
**Test Package** : IND 2

**SUFFIELD WWTF**  
 844 EAST ST  
 SUFFIELD, CT  
 US 06078  
 Contact: Julie Nigro  
 jnigro@suffieldct.gov  
 T: (860)668-3856  
 F: (860)668-3858

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)