



# OIL ANALYSIS REPORT

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

Machine Id  
**12521**  
Component  
**Rear Drum Gearbox**  
Fluid  
**GEAR OIL SAE 85W140 (--- GAL)**

## RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

## WEAR

Gear wear is indicated.

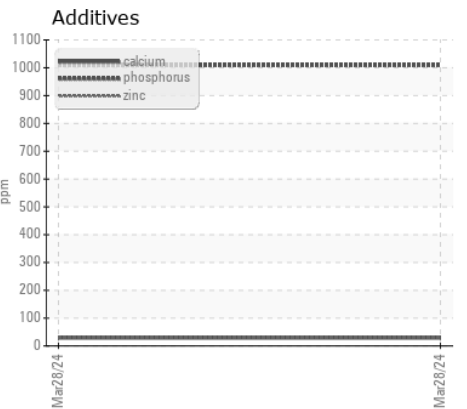
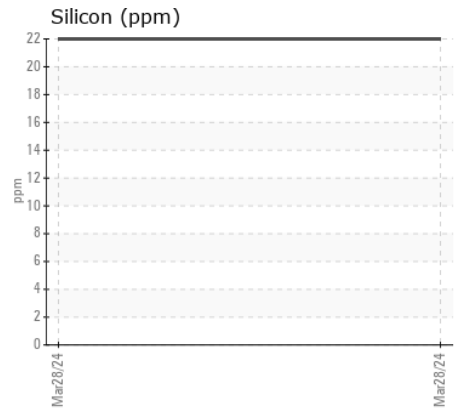
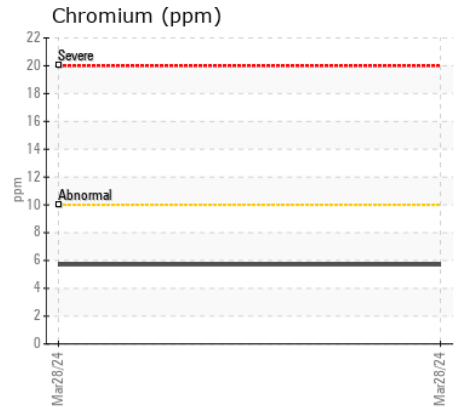
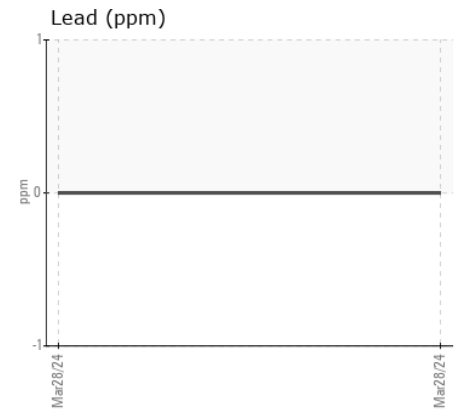
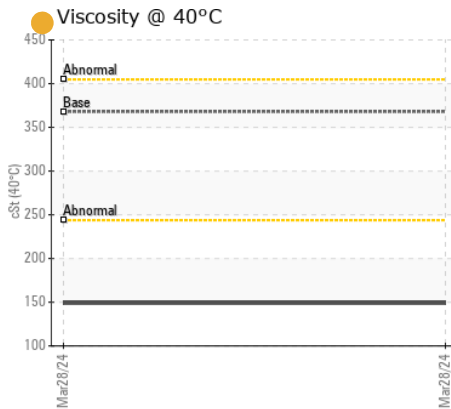
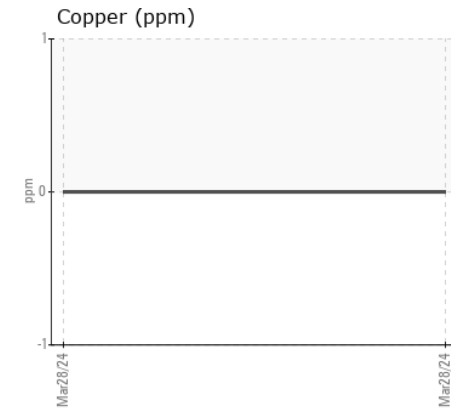
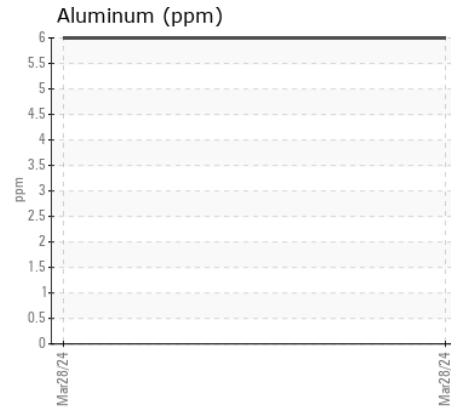
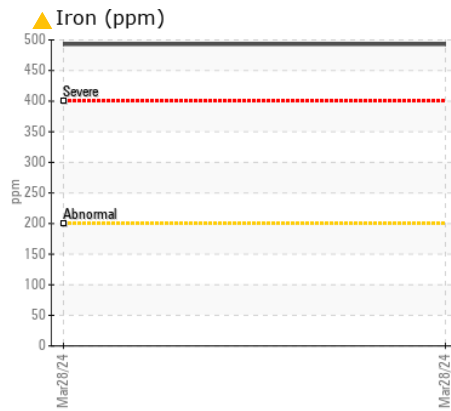
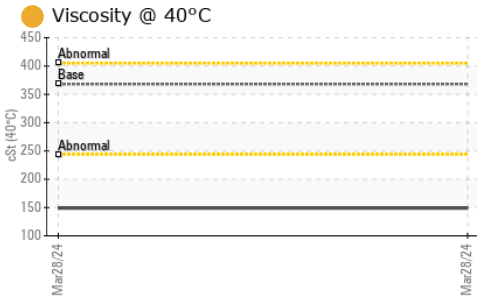
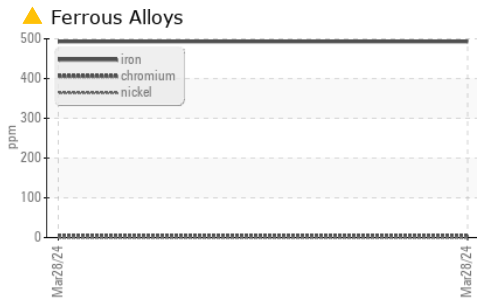
## CONTAMINATION

There is no indication of any contamination in the oil.

## FLUID CONDITION

The oil viscosity is lower than normal. Confirm oil type.

| Test             | UOM    | Method      | Limit/Abn | Current            | History1 | History2 |
|------------------|--------|-------------|-----------|--------------------|----------|----------|
| Sample Number    |        | Client Info |           | <b>DC0032816</b>   | ---      | ---      |
| Sample Date      |        | Client Info |           | <b>28 Mar 2024</b> | ---      | ---      |
| Machine Age      | hrs    | Client Info |           | <b>957</b>         | ---      | ---      |
| Oil Age          | hrs    | Client Info |           | <b>900</b>         | ---      | ---      |
| Filter Age       | hrs    | Client Info |           | <b>0</b>           | ---      | ---      |
| Oil Changed      |        | Client Info |           | <b>Changed</b>     | ---      | ---      |
| Filter Changed   |        | Client Info |           | <b>N/A</b>         | ---      | ---      |
| Sample Status    |        |             |           | <b>ABNORMAL</b>    | ---      | ---      |
| Iron             | ppm    | ASTM D5185m | >200      | <b>▲ 493</b>       | ---      | ---      |
| Chromium         | ppm    | ASTM D5185m | >10       | <b>6</b>           | ---      | ---      |
| Nickel           | ppm    | ASTM D5185m | >10       | <b>0</b>           | ---      | ---      |
| Titanium         | ppm    | ASTM D5185m |           | <b>4</b>           | ---      | ---      |
| Silver           | ppm    | ASTM D5185m |           | <b>0</b>           | ---      | ---      |
| Aluminum         | ppm    | ASTM D5185m |           | <b>6</b>           | ---      | ---      |
| Lead             | ppm    | ASTM D5185m |           | <b>0</b>           | ---      | ---      |
| Copper           | ppm    | ASTM D5185m |           | <b>0</b>           | ---      | ---      |
| Tin              | ppm    | ASTM D5185m |           | <b>0</b>           | ---      | ---      |
| Vanadium         | ppm    | ASTM D5185m |           | <b>0</b>           | ---      | ---      |
| White Metal      | scalar | *Visual     | NONE      | <b>NONE</b>        | ---      | ---      |
| Yellow Metal     | scalar | *Visual     | NONE      | <b>NONE</b>        | ---      | ---      |
| Silicon          | ppm    | ASTM D5185m |           | <b>22</b>          | ---      | ---      |
| Potassium        | ppm    | ASTM D5185m | >20       | <b>&lt;1</b>       | ---      | ---      |
| Water            |        | WC Method   | >0.2      | <b>NEG</b>         | ---      | ---      |
| Silt             | scalar | *Visual     | NONE      | <b>NONE</b>        | ---      | ---      |
| Debris           | scalar | *Visual     | NONE      | <b>NONE</b>        | ---      | ---      |
| Sand/Dirt        | scalar | *Visual     | NONE      | <b>NONE</b>        | ---      | ---      |
| Appearance       | scalar | *Visual     | NORML     | <b>NORML</b>       | ---      | ---      |
| Odor             | scalar | *Visual     | NORML     | <b>NORML</b>       | ---      | ---      |
| Emulsified Water | scalar | *Visual     | >0.2      | <b>NEG</b>         | ---      | ---      |
| Sodium           | ppm    | ASTM D5185m |           | <b>9</b>           | ---      | ---      |
| Boron            | ppm    | ASTM D5185m | 400       | <b>169</b>         | ---      | ---      |
| Barium           | ppm    | ASTM D5185m | 200       | <b>11</b>          | ---      | ---      |
| Molybdenum       | ppm    | ASTM D5185m | 12        | <b>0</b>           | ---      | ---      |
| Manganese        | ppm    | ASTM D5185m |           | <b>4</b>           | ---      | ---      |
| Magnesium        | ppm    | ASTM D5185m | 12        | <b>7</b>           | ---      | ---      |
| Calcium          | ppm    | ASTM D5185m | 150       | <b>29</b>          | ---      | ---      |
| Phosphorus       | ppm    | ASTM D5185m | 1650      | <b>1009</b>        | ---      | ---      |
| Zinc             | ppm    | ASTM D5185m | 125       | <b>30</b>          | ---      | ---      |
| Sulfur           | ppm    | ASTM D5185m | 22500     | <b>22714</b>       | ---      | ---      |
| Visc @ 40°C      | cSt    | ASTM D445   | 368       | <b>● 149</b>       | ---      | ---      |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0032816 **Received** : 12 Apr 2024  
**Lab Number** : 06147760 **Tested** : 15 Apr 2024  
**Unique Number** : 10977838 **Diagnosed** : 16 Apr 2024 - Jonathan Hester  
**Test Package** : MOB 1

**FRANCIS O DAY**  
 14900 SOUTHLAWN LN  
 ROCKVILLE, MD  
 US 20850  
 Contact: JAMIE FORESTER

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)

T:  
F: