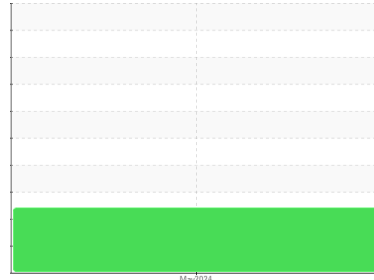




# OIL ANALYSIS REPORT

Sample Rating Trend



Area  
**C&S**  
 Machine Id  
**Conveyor 25**  
 Component  
**Drive End Conveyor Gearbox**  
 Fluid  
**SCHAEFFER 293A SUPREME GEAR LUBE NO TACK 220 (--- GAL)**

## DIAGNOSIS

**Recommendation**  
 We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

**Wear**  
 All component wear rates are normal.

**Contamination**  
 Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

**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 |             | <b>WC0936835</b>   | ---      | ---      |
| Sample Date   | Client Info |             | <b>09 May 2024</b> | ---      | ---      |
| Machine Age   | hrs         | Client Info | <b>0</b>           | ---      | ---      |
| Oil Age       | hrs         | Client Info | <b>0</b>           | ---      | ---      |
| Oil Changed   | Client Info |             | <b>Not Changed</b> | ---      | ---      |
| Sample Status |             |             | <b>ABNORMAL</b>    | ---      | ---      |

## CONTAMINATION

|       | method    | limit/base | current    | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.2       | <b>NEG</b> | ---      | ---      |

## WEAR METALS

|          | method | limit/base  | current | history1     | history2 |
|----------|--------|-------------|---------|--------------|----------|
| Iron     | ppm    | ASTM D5185m | >200    | <b>179</b>   | ---      |
| Chromium | ppm    | ASTM D5185m | >10     | <b>&lt;1</b> | ---      |
| Nickel   | ppm    | ASTM D5185m | >10     | <b>1</b>     | ---      |
| Titanium | ppm    | ASTM D5185m |         | <b>2</b>     | ---      |
| Silver   | ppm    | ASTM D5185m |         | <b>0</b>     | ---      |
| Aluminum | ppm    | ASTM D5185m |         | <b>23</b>    | ---      |
| Lead     | ppm    | ASTM D5185m |         | <b>&lt;1</b> | ---      |
| Copper   | ppm    | ASTM D5185m |         | <b>1</b>     | ---      |
| Tin      | ppm    | ASTM D5185m |         | <b>&lt;1</b> | ---      |
| Vanadium | ppm    | ASTM D5185m |         | <b>&lt;1</b> | ---      |
| Cadmium  | ppm    | ASTM D5185m |         | <b>&lt;1</b> | ---      |

## ADDITIVES

|            | method | limit/base  | current | history1     | history2 |
|------------|--------|-------------|---------|--------------|----------|
| Boron      | ppm    | ASTM D5185m |         | <b>60</b>    | ---      |
| Barium     | ppm    | ASTM D5185m |         | <b>3</b>     | ---      |
| Molybdenum | ppm    | ASTM D5185m |         | <b>423</b>   | ---      |
| Manganese  | ppm    | ASTM D5185m |         | <b>2</b>     | ---      |
| Magnesium  | ppm    | ASTM D5185m |         | <b>11</b>    | ---      |
| Calcium    | ppm    | ASTM D5185m |         | <b>27</b>    | ---      |
| Phosphorus | ppm    | ASTM D5185m |         | <b>1180</b>  | ---      |
| Zinc       | ppm    | ASTM D5185m |         | <b>22</b>    | ---      |
| Sulfur     | ppm    | ASTM D5185m |         | <b>28338</b> | ---      |

## CONTAMINANTS

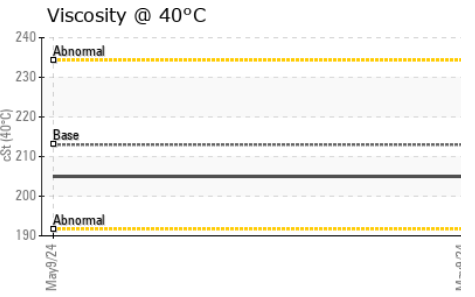
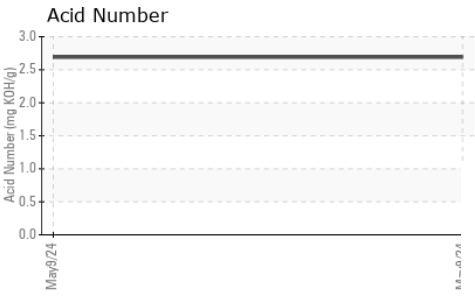
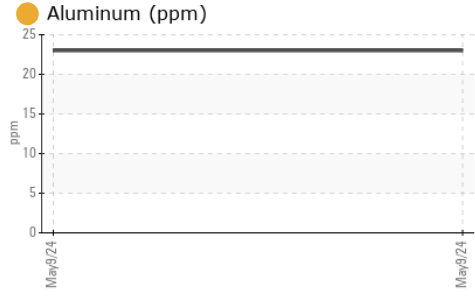
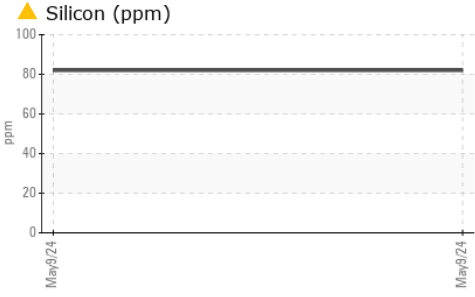
|           | method | limit/base  | current | history1  | history2 |
|-----------|--------|-------------|---------|-----------|----------|
| Silicon   | ppm    | ASTM D5185m |         | <b>82</b> | ---      |
| Sodium    | ppm    | ASTM D5185m |         | <b>6</b>  | ---      |
| Potassium | ppm    | ASTM D5185m | >20     | <b>5</b>  | ---      |

## FLUID DEGRADATION

|                  | method   | limit/base | current | history1    | history2 |
|------------------|----------|------------|---------|-------------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 |         | <b>2.69</b> | ---      |



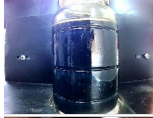

# OIL ANALYSIS REPORT



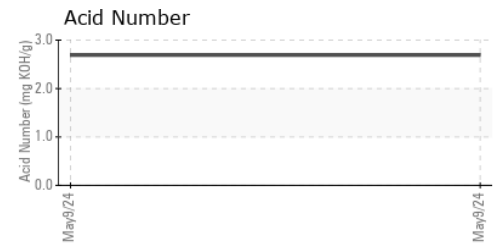
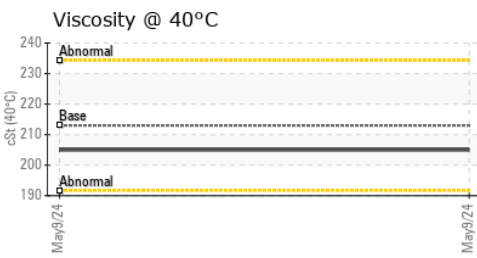
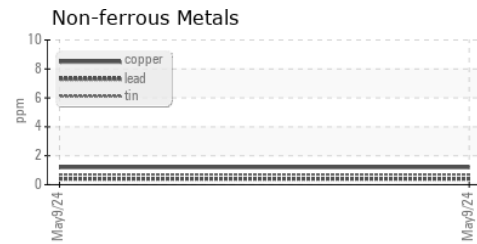
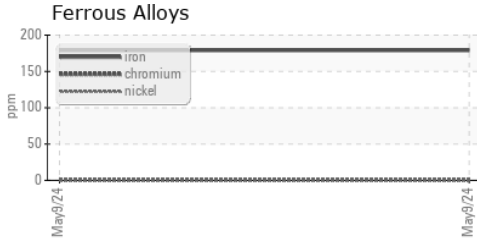
| VISUAL           | method | limit/base | current | history1     | history2 |
|------------------|--------|------------|---------|--------------|----------|
| White Metal      | scalar | *Visual    | NONE    | <b>NONE</b>  | ---      |
| Yellow Metal     | scalar | *Visual    | NONE    | <b>NONE</b>  | ---      |
| Precipitate      | scalar | *Visual    | NONE    | <b>NONE</b>  | ---      |
| Silt             | scalar | *Visual    | NONE    | <b>LIGHT</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>   | ---      |
| Free Water       | scalar | *Visual    |         | <b>NEG</b>   | ---      |

| FLUID PROPERTIES | method | limit/base    | current    | history1 | history2 |
|------------------|--------|---------------|------------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D445 213 | <b>205</b> | ---      | ---      |

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

|        |  |  |   |          |          |
|--------|--|--|---|----------|----------|
| Color  |  |  |  | no image | no image |
| Bottom |  |  |  | no image | no image |

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0936835      **Received** : 13 May 2024  
**Lab Number** : **06177797**      **Tested** : 14 May 2024  
**Unique Number** : 11029123      **Diagnosed** : 16 May 2024 - Angela Borella  
**Test Package** : IND 2

**3M - PITTSBORO**  
 4191 NC 87 S  
 MONCURE, NC  
 US 27559

Contact: CHARLES JARRELL  
cjarrell@mmm.com

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: