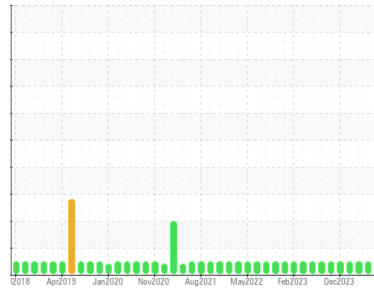




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

[604554344 SR]

Machine Id

**CRMB PASTE EXTRUDER (S/N 20058789)**

Component

**Gearbox**

Fluid

**GEAR OIL ISO 220 (--- 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 component.

### 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>WC0854388</b>   | WC0854415   | WC0854418   |
| Sample Date   | Client Info |             | <b>11 Jul 2024</b> | 16 May 2024 | 14 Mar 2024 |
| Machine Age   | mls         | Client Info | <b>0</b>           | 0           | 0           |
| Oil Age       | mls         | Client Info | <b>0</b>           | 0           | 0           |
| Oil Changed   | Client Info |             | <b>Not Changed</b> | Not Changed | Not Changed |
| Sample Status |             |             | <b>NORMAL</b>      | NORMAL      | NORMAL      |

## CONTAMINATION

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

## WEAR METALS

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

## ADDITIVES

|            | method | limit/base        | current      | history1 | history2 |
|------------|--------|-------------------|--------------|----------|----------|
| Boron      | ppm    | ASTM D5185m 50    | <b>0</b>     | 0        | 0        |
| Barium     | ppm    | ASTM D5185m 15    | <b>0</b>     | 0        | 0        |
| Molybdenum | ppm    | ASTM D5185m 15    | <b>0</b>     | <1       | 0        |
| Manganese  | ppm    | ASTM D5185m       | <b>&lt;1</b> | <1       | 0        |
| Magnesium  | ppm    | ASTM D5185m 50    | <b>&lt;1</b> | <1       | 0        |
| Calcium    | ppm    | ASTM D5185m 50    | <b>7</b>     | 10       | 0        |
| Phosphorus | ppm    | ASTM D5185m 350   | <b>194</b>   | 219      | 405      |
| Zinc       | ppm    | ASTM D5185m 100   | <b>4</b>     | 7        | 0        |
| Sulfur     | ppm    | ASTM D5185m 12500 | <b>2393</b>  | 2477     | 1033     |

## CONTAMINANTS

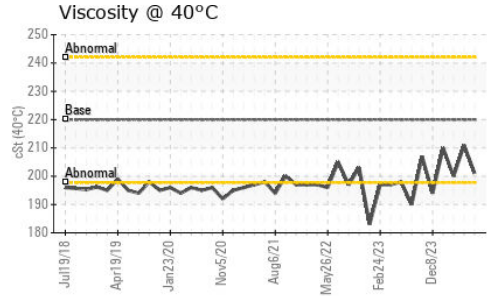
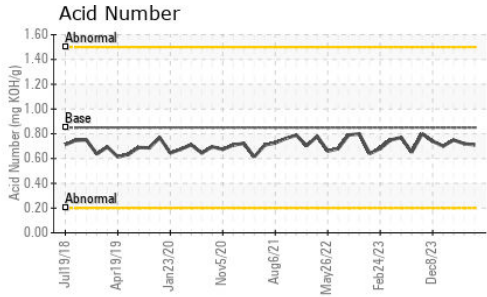
|           | method | limit/base      | current  | history1 | history2 |
|-----------|--------|-----------------|----------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >50 | <b>4</b> | 9        | <1       |
| Sodium    | ppm    | ASTM D5185m     | <b>1</b> | 0        | 0        |
| Potassium | ppm    | ASTM D5185m >20 | <b>0</b> | 1        | 0        |

## FLUID DEGRADATION

|                  | method   | limit/base      | current     | history1 | history2 |
|------------------|----------|-----------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 0.85 | <b>0.71</b> | 0.72     | 0.75     |



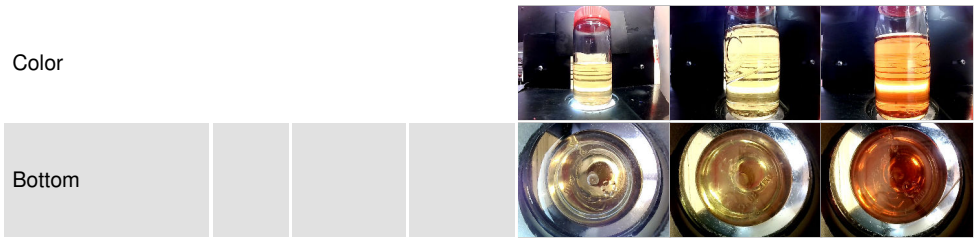
# OIL ANALYSIS REPORT



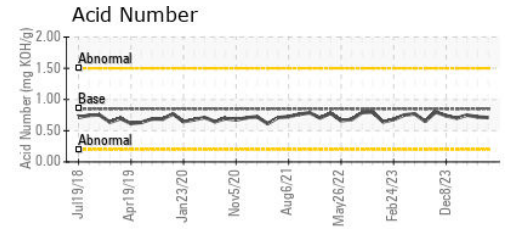
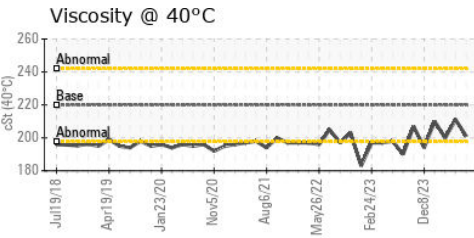
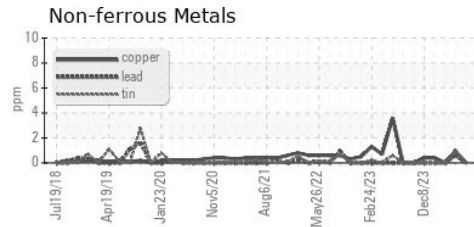
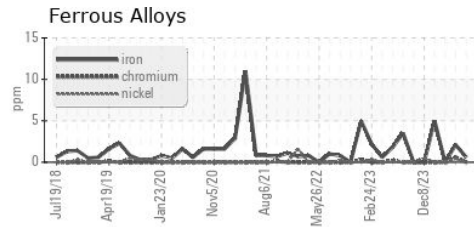
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | NONE     |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | NONE     |
| 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    | >0.2    | NEG      | NEG      |
| Free Water       | scalar | *Visual    |         | NEG      | NEG      |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D445  | 220     | 201      | 211      |

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



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0854388      **Received** : 16 Jul 2024  
**Lab Number** : 06237956      **Tested** : 17 Jul 2024  
**Unique Number** : 11126790      **Diagnosed** : 18 Jul 2024 - Sean Felton  
**Test Package** : IND 2

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 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)