



# PROBLEM SUMMARY

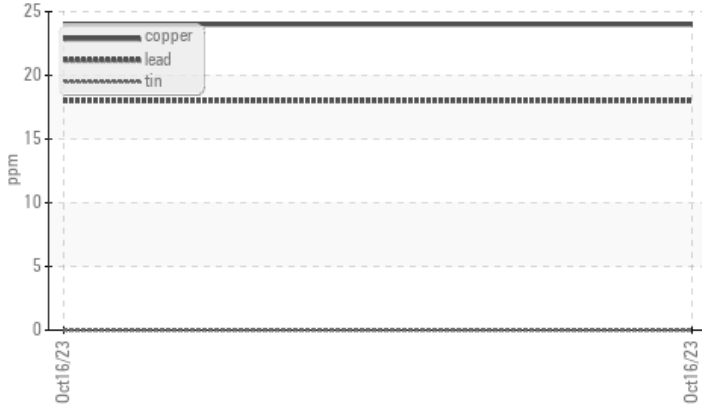
Area  
**AFT - C01500**  
 Machine Id  
**A2310080**  
 Component  
**Unknown Component**  
 Fluid  
**CHEMKUT 111113 (--- GAL)**

Sample Rating Trend

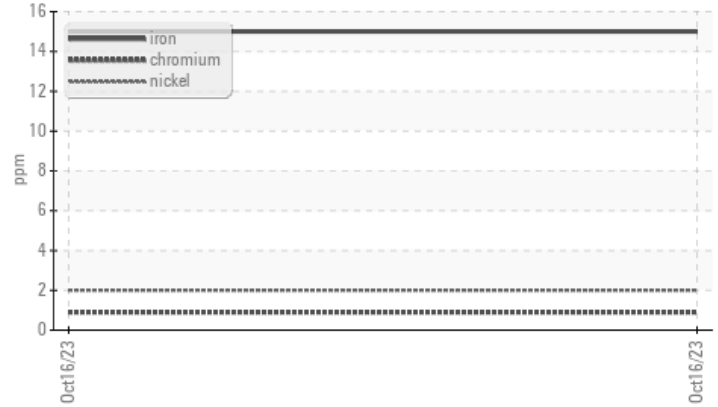


## COMPONENT CONDITION SUMMARY

### ▲ Non-ferrous Metals



### ▲ Ferrous Alloys



## RECOMMENDATION

This is a baseline read-out on the submitted sample.

## PROBLEMATIC TEST RESULTS

| Sample Status |     |               | ATTENTION | --- | --- |
|---------------|-----|---------------|-----------|-----|-----|
| Iron          | ppm | ASTM D5185(m) | ▲ 15      | --- | --- |
| Lead          | ppm | ASTM D5185(m) | ▲ 18      | --- | --- |
| Copper        | ppm | ASTM D5185(m) | ▲ 24      | --- | --- |

Customer Id: CHECOB  
 Sample No.: E30000522  
 Lab Number: 02590070  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
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To change component or sample information:  
 Gloria Gonzalez +1 (289)291-4643 x4643  
[gloria.gonzalez@wearcheck.com](mailto:gloria.gonzalez@wearcheck.com)

## RECOMMENDED ACTIONS

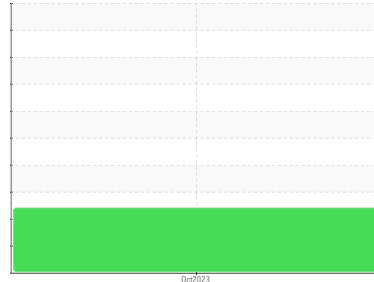
*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Area  
**AFT - C01500**  
 Machine Id  
**A2310080**  
 Component  
**Unknown Component**  
 Fluid  
**CHEMKUT 111113 (--- GAL)**

## DIAGNOSIS

- ▲ Recommendation**  
This is a baseline read-out on the submitted sample.
- ▲ Wear**  
Copper, iron and lead ppm levels are noted.
- Contamination**  
{not applicable}
- Fluid Condition**  
{not applicable}

## SAMPLE INFORMATION

|                  | method      | limit/base  | current             | history1 | history2 |
|------------------|-------------|-------------|---------------------|----------|----------|
| Batch #          | Client Info |             | <b>2023 09 0450</b> | ---      | ---      |
| Machine ID       | Client Info |             | <b>A2310080</b>     | ---      | ---      |
| Department       | Client Info |             | <b>Production</b>   | ---      | ---      |
| Production Stage | Client Info |             | <b>Final</b>        | ---      | ---      |
| Sent to WC       | Client Info |             | <b>10/16/2023</b>   | ---      | ---      |
| Sample Number    | Client Info |             | <b>E30000522</b>    | ---      | ---      |
| Sample Date      | Client Info |             | <b>16 Oct 2023</b>  | ---      | ---      |
| Machine Age      | hrs         | Client Info | <b>0</b>            | ---      | ---      |
| Oil Age          | hrs         | Client Info | <b>0</b>            | ---      | ---      |
| Oil Changed      |             | Client Info | <b>N/A</b>          | ---      | ---      |
| Sample Status    |             |             | <b>ATTENTION</b>    | ---      | ---      |

## WEAR METALS

|           | method | limit/base    | current      | history1 | history2 |
|-----------|--------|---------------|--------------|----------|----------|
| Iron      | ppm    | ASTM D5185(m) | <b>▲ 15</b>  | ---      | ---      |
| Chromium  | ppm    | ASTM D5185(m) | <b>&lt;1</b> | ---      | ---      |
| Nickel    | ppm    | ASTM D5185(m) | <b>2</b>     | ---      | ---      |
| Titanium  | ppm    | ASTM D5185(m) | <b>0</b>     | ---      | ---      |
| Silver    | ppm    | ASTM D5185(m) | <b>&lt;1</b> | ---      | ---      |
| Aluminum  | ppm    | ASTM D5185(m) | <b>&lt;1</b> | ---      | ---      |
| Lead      | ppm    | ASTM D5185(m) | <b>▲ 18</b>  | ---      | ---      |
| Copper    | ppm    | ASTM D5185(m) | <b>▲ 24</b>  | ---      | ---      |
| Tin       | ppm    | ASTM D5185(m) | <b>0</b>     | ---      | ---      |
| Antimony  | ppm    | ASTM D5185(m) | <b>0</b>     | ---      | ---      |
| Vanadium  | ppm    | ASTM D5185(m) | <b>0</b>     | ---      | ---      |
| Beryllium | ppm    | ASTM D5185(m) | <b>0</b>     | ---      | ---      |
| Cadmium   | ppm    | ASTM D5185(m) | <b>0</b>     | ---      | ---      |

## ADDITIVES

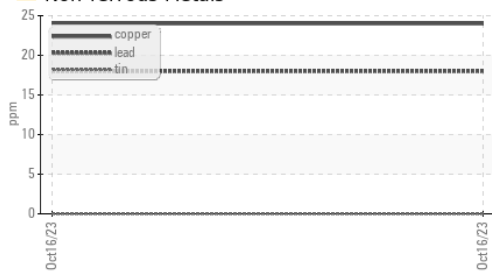
|            | method | limit/base    | current      | history1 | history2 |
|------------|--------|---------------|--------------|----------|----------|
| Boron      | ppm    | ASTM D5185(m) | <b>&lt;1</b> | ---      | ---      |
| Barium     | ppm    | ASTM D5185(m) | <b>&lt;1</b> | ---      | ---      |
| Molybdenum | ppm    | ASTM D5185(m) | <b>0</b>     | ---      | ---      |
| Manganese  | ppm    | ASTM D5185(m) | <b>15</b>    | ---      | ---      |
| Magnesium  | ppm    | ASTM D5185(m) | <b>7</b>     | ---      | ---      |
| Calcium    | ppm    | ASTM D5185(m) | <b>100</b>   | ---      | ---      |
| Phosphorus | ppm    | ASTM D5185(m) | <b>186</b>   | ---      | ---      |
| Zinc       | ppm    | ASTM D5185(m) | <b>127</b>   | ---      | ---      |
| Sulfur     | ppm    | ASTM D5185(m) | <b>11805</b> | ---      | ---      |
| Lithium    | ppm    | ASTM D5185(m) | <b>&lt;1</b> | ---      | ---      |

## CONTAMINANTS

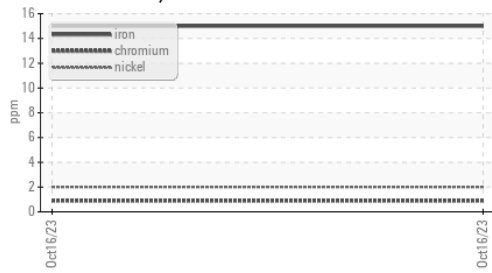
|           | method | limit/base    | current       | history1 | history2 |
|-----------|--------|---------------|---------------|----------|----------|
| Silicon   | ppm    | ASTM D5185(m) | <b>2</b>      | ---      | ---      |
| Sodium    | ppm    | ASTM D5185(m) | <b>2</b>      | ---      | ---      |
| Potassium | ppm    | ASTM D5185(m) | <b>&gt;20</b> | ---      | ---      |
| Water     | %      | ASTM D6304*   | <b>0.002</b>  | ---      | ---      |
| ppm Water | ppm    | ASTM D6304*   | <b>17.7</b>   | ---      | ---      |

# OIL ANALYSIS REPORT

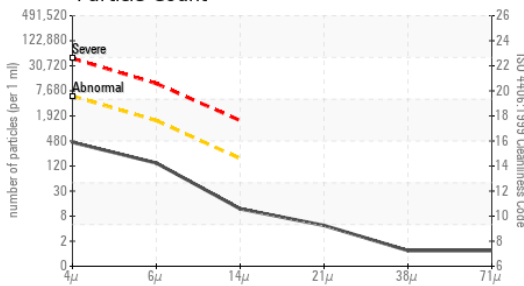
### ▲ Non-ferrous Metals



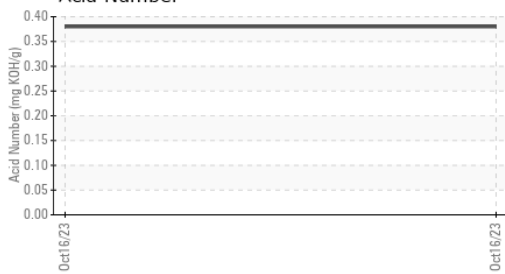
### ▲ Ferrous Alloys



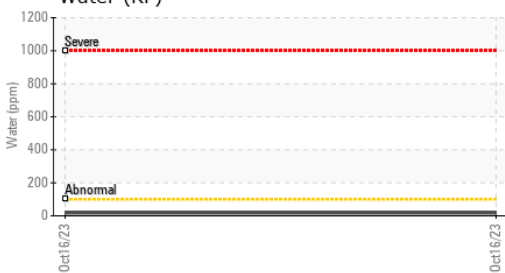
### Particle Count



### Acid Number



### Water (KF)



| FLUID CLEANLINESS | method       | limit/base | current         | history1 | history2 |
|-------------------|--------------|------------|-----------------|----------|----------|
| Particles >4µm    | ASTM D7647   | >5000      | <b>392</b>      | ---      | ---      |
| Particles >6µm    | ASTM D7647   | >1300      | <b>125</b>      | ---      | ---      |
| Particles >14µm   | ASTM D7647   | >160       | <b>10</b>       | ---      | ---      |
| Particles >21µm   | ASTM D7647   | >40        | <b>4</b>        | ---      | ---      |
| Particles >38µm   | ASTM D7647   | >10        | <b>1</b>        | ---      | ---      |
| Particles >71µm   | ASTM D7647   | >3         | <b>1</b>        | ---      | ---      |
| Oil Cleanliness   | ISO 4406 (c) | >19/17/14  | <b>16/14/10</b> | ---      | ---      |

| FLUID DEGRADATION | method              | limit/base | current     | history1 | history2 |
|-------------------|---------------------|------------|-------------|----------|----------|
| Acid Number (AN)  | mg KOH/g ASTM D974* |            | <b>0.38</b> | ---      | ---      |

| 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>NONE</b>  | ---      | ---      |
| Debris           | scalar Visual* | NONE       | <b>NONE</b>  | ---      | ---      |
| Sand/Dirt        | scalar Visual* | NONE       | <b>NONE</b>  | ---      | ---      |
| Appearance       | scalar Visual* | NORML      | <b>HAZY</b>  | ---      | ---      |
| Odor             | scalar Visual* | NORML      | <b>NORML</b> | ---      | ---      |
| Emulsified Water | scalar Visual* |            | <b>NEG</b>   | ---      | ---      |
| Free Water       | scalar Visual* |            | <b>NEG</b>   | ---      | ---      |

| FLUID PROPERTIES     | method            | limit/base | current     | history1 | history2 |
|----------------------|-------------------|------------|-------------|----------|----------|
| Visc @ 40°C          | cSt ASTM D7279(m) |            | <b>72.0</b> | ---      | ---      |
| Visc @ 100°C         | cSt ASTM D7279(m) |            | <b>9.3</b>  | ---      | ---      |
| Viscosity Index (VI) | Scale ASTM D2270* |            | <b>105</b>  | ---      | ---      |

### SAMPLE IMAGES

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



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : E30000522 **Received** : 18 Oct 2023  
**Lab Number** : **02590070** **Diagnosed** : 20 Oct 2023  
**Unique Number** : 5659136 **Diagnostician** : Tatiana Sorkina  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, PrtCount, TAN Man, VI )

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 F: (905)373-4950

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.