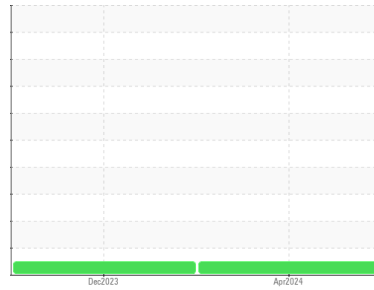


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

**NOT GIVEN**

Machine Id

**CAMERON AC2 - CM-AC2000 - CARGILL (S/N CB-15516)**

Component

**Compressor**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

### Wear

All component wear rates are normal.

### Contamination

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 acceptable for the time in service.

| SAMPLE INFORMATION |             | method      | limit/base | current            | history1    | history2 |
|--------------------|-------------|-------------|------------|--------------------|-------------|----------|
| Sample Number      | Client Info |             |            | <b>UCS06148769</b> | UCS06070573 | ---      |
| Sample Date        | Client Info |             |            | <b>02 Apr 2024</b> | 26 Dec 2023 | ---      |
| Machine Age        | hrs         | Client Info |            | <b>56088</b>       | 53901       | ---      |
| Oil Age            | hrs         | Client Info |            | <b>0</b>           | 0           | ---      |
| Oil Changed        | Client Info |             |            | <b>N/A</b>         | Not Chngd   | ---      |
| Sample Status      |             |             |            | <b>NORMAL</b>      | NORMAL      | ---      |

| WEAR METALS |     | method      | limit/base | current      | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185m | >50        | <b>5</b>     | 6        | ---      |
| Chromium    | ppm | ASTM D5185m | >10        | <b>0</b>     | <1       | ---      |
| Nickel      | ppm | ASTM D5185m |            | <b>0</b>     | 0        | ---      |
| Titanium    | ppm | ASTM D5185m |            | <b>0</b>     | <1       | ---      |
| Silver      | ppm | ASTM D5185m |            | <b>0</b>     | 0        | ---      |
| Aluminum    | ppm | ASTM D5185m | >25        | <b>0</b>     | 3        | ---      |
| Lead        | ppm | ASTM D5185m | >25        | <b>0</b>     | <1       | ---      |
| Copper      | ppm | ASTM D5185m | >50        | <b>0</b>     | <1       | ---      |
| Tin         | ppm | ASTM D5185m | >15        | <b>0</b>     | <1       | ---      |
| Vanadium    | ppm | ASTM D5185m |            | <b>0</b>     | <1       | ---      |
| Cadmium     | ppm | ASTM D5185m |            | <b>&lt;1</b> | <1       | ---      |

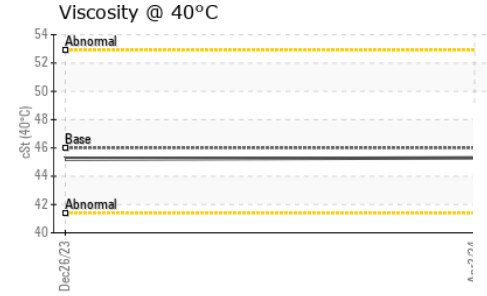
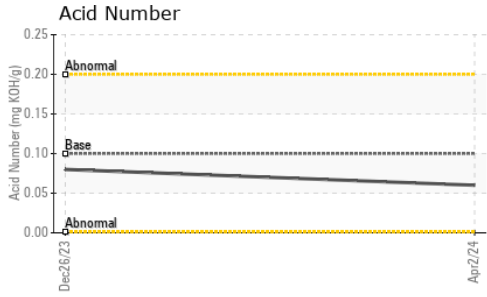
| ADDITIVES  |     | method      | limit/base | current      | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron      | ppm | ASTM D5185m | 5          | <b>0</b>     | 0        | ---      |
| Barium     | ppm | ASTM D5185m | 5          | <b>&lt;1</b> | 0        | ---      |
| Molybdenum | ppm | ASTM D5185m | 5          | <b>0</b>     | <1       | ---      |
| Manganese  | ppm | ASTM D5185m |            | <b>&lt;1</b> | 0        | ---      |
| Magnesium  | ppm | ASTM D5185m | 5          | <b>0</b>     | 0        | ---      |
| Calcium    | ppm | ASTM D5185m | 12         | <b>0</b>     | 0        | ---      |
| Phosphorus | ppm | ASTM D5185m | 12         | <b>0</b>     | 0        | ---      |
| Zinc       | ppm | ASTM D5185m | 12         | <b>0</b>     | 0        | ---      |
| Sulfur     | ppm | ASTM D5185m | 1000       | <b>15</b>    | 0        | ---      |

| CONTAMINANTS |     | method      | limit/base | current      | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >25        | <b>0</b>     | 0        | ---      |
| Sodium       | ppm | ASTM D5185m |            | <b>&lt;1</b> | 0        | ---      |
| Potassium    | ppm | ASTM D5185m | >20        | <b>0</b>     | <1       | ---      |
| Water        | %   | ASTM D6304  | >0.1       | <b>NEG</b>   | NEG      | ---      |

| FLUID DEGRADATION |          | method     | limit/base | current     | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN)  | mg KOH/g | ASTM D8045 | 0.10       | <b>0.06</b> | 0.08     | ---      |

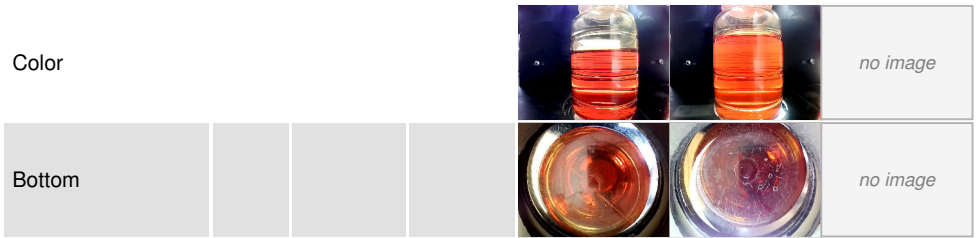
| VISUAL           |        | method  | limit/base | current      | history1 | history2 |
|------------------|--------|---------|------------|--------------|----------|----------|
| White Metal      | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | ---      |
| Yellow Metal     | scalar | *Visual | 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 | >0.1       | <b>NEG</b>   | NEG      | ---      |
| Free Water       | scalar | *Visual |            | <b>NEG</b>   | NEG      | ---      |

# OIL ANALYSIS REPORT

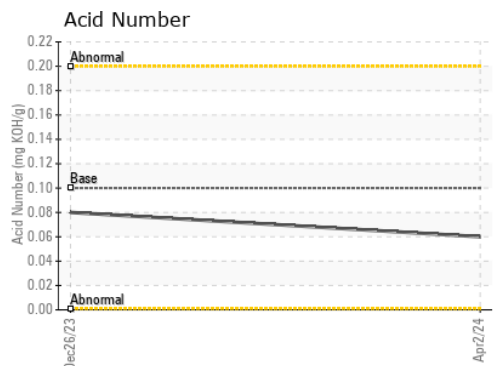
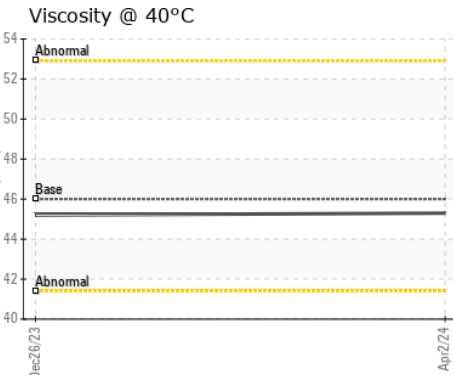
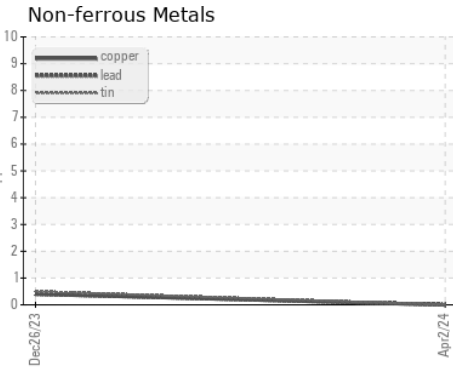
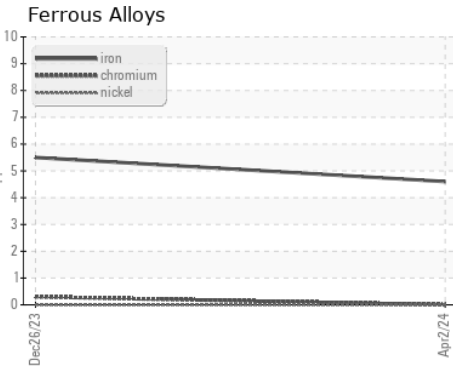


| FLUID PROPERTIES | method | limit/base | current | history1    | history2 |     |
|------------------|--------|------------|---------|-------------|----------|-----|
| Visc @ 40°C      | cSt    | ASTM D445  | 46      | <b>45.3</b> | 45.2     | --- |

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



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCS06148769      **Received** : 15 Apr 2024  
**Lab Number** : **06148769**      **Tested** : 17 Apr 2024  
**Unique Number** : 10978847      **Diagnosed** : 17 Apr 2024 - Sean Felton  
**Test Package** : IND 2 ( Additional Tests: KF )

**RASMUSSEN AIR & GAS ENERGY**  
 655 240TH STREET  
 WATERLOO, NE  
 US 68069  
 Contact: CHASE SVOBODA  
 chase.svoboda@rage-energy.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)