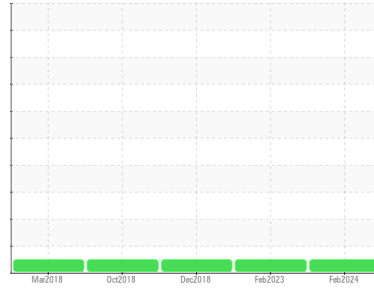




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**CARRIER DTE MACK CH 1 (S/N 744322890)**

Component  
**Refrigeration Compressor**  
Fluid  
**POE 68 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: Annual test )

### 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 suitable for further service.

## SAMPLE INFORMATION

|               | method      | limit/base  | current            | history1    | history2    |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info |             | <b>WC0827299</b>   | WC0507661   | WCI2322327  |
| Sample Date   | Client Info |             | <b>12 Feb 2024</b> | 14 Feb 2023 | 18 Dec 2018 |
| Machine Age   | hrs         | Client Info | <b>29446</b>       | 29446       | 0           |
| Oil Age       | hrs         | Client Info | <b>29446</b>       | 29446       | 0           |
| Oil Changed   |             | Client Info | <b>N/A</b>         | N/A         | N/A         |
| Sample Status |             |             | <b>NORMAL</b>      | NORMAL      | NORMAL      |

## WEAR METALS

|          | method | limit/base     | current      | history1 | history2 |
|----------|--------|----------------|--------------|----------|----------|
| Iron     | ppm    | ASTM D5185m >8 | <b>0</b>     | 0        | 0        |
| Chromium | ppm    | ASTM D5185m >2 | <b>&lt;1</b> | 0        | <1       |
| Nickel   | ppm    | ASTM D5185m    | <b>0</b>     | 0        | 4        |
| Titanium | ppm    | ASTM D5185m    | <b>0</b>     | 0        | 0        |
| Silver   | ppm    | ASTM D5185m >2 | <b>0</b>     | 0        | <1       |
| Aluminum | ppm    | ASTM D5185m >3 | <b>0</b>     | 0        | 1        |
| Lead     | ppm    | ASTM D5185m >2 | <b>0</b>     | 0        | 4        |
| Copper   | ppm    | ASTM D5185m >8 | <b>0</b>     | <1       | 0        |
| Tin      | ppm    | ASTM D5185m >4 | <b>0</b>     | 0        | 2        |
| Antimony | ppm    | ASTM D5185m    | <b>---</b>   | ---      | 0        |
| Vanadium | ppm    | ASTM D5185m    | <b>0</b>     | 0        | 0        |
| Cadmium  | ppm    | ASTM D5185m    | <b>0</b>     | 0        | 0        |

## ADDITIVES

|            | method | limit/base  | current      | history1 | history2 |
|------------|--------|-------------|--------------|----------|----------|
| Boron      | ppm    | ASTM D5185m | <b>0</b>     | 0        | 0        |
| Barium     | ppm    | ASTM D5185m | <b>0</b>     | 0        | 0        |
| Molybdenum | ppm    | ASTM D5185m | <b>0</b>     | 0        | 0        |
| Manganese  | ppm    | ASTM D5185m | <b>0</b>     | 0        | 0        |
| Magnesium  | ppm    | ASTM D5185m | <b>&lt;1</b> | 0        | 48       |
| Calcium    | ppm    | ASTM D5185m | <b>1</b>     | 0        | 0        |
| Phosphorus | ppm    | ASTM D5185m | <b>837</b>   | 1005     | 104      |
| Zinc       | ppm    | ASTM D5185m | <b>0</b>     | 0        | <1       |
| Sulfur     | ppm    | ASTM D5185m | <b>0</b>     | 0        | 0        |

## CONTAMINANTS

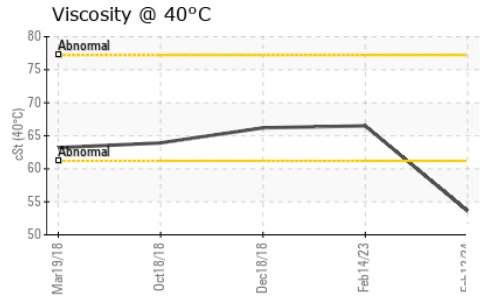
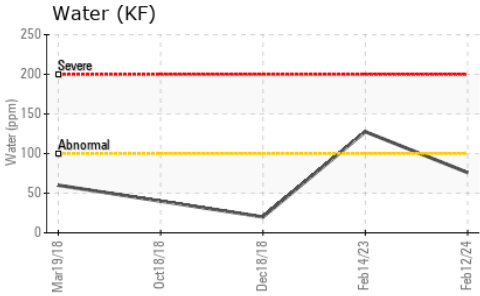
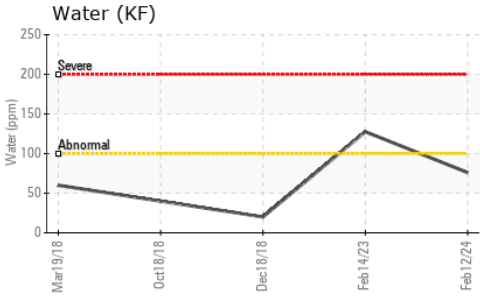
|           | method | limit/base       | current      | history1 | history2 |
|-----------|--------|------------------|--------------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >15  | <b>12</b>    | 14       | 10       |
| Sodium    | ppm    | ASTM D5185m      | <b>0</b>     | 0        | 23       |
| Potassium | ppm    | ASTM D5185m >20  | <b>0</b>     | <1       | 0        |
| Water     | %      | ASTM D6304 >0.01 | <b>0.007</b> | 0.012    | 0.002    |
| ppm Water | ppm    | ASTM D6304 >100  | <b>76</b>    | 127.6    | 20       |

## FLUID DEGRADATION

|                  | method   | limit/base | current      | history1 | history2 |
|------------------|----------|------------|--------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D974  | <b>0.014</b> | 0.015    | 0.014    |



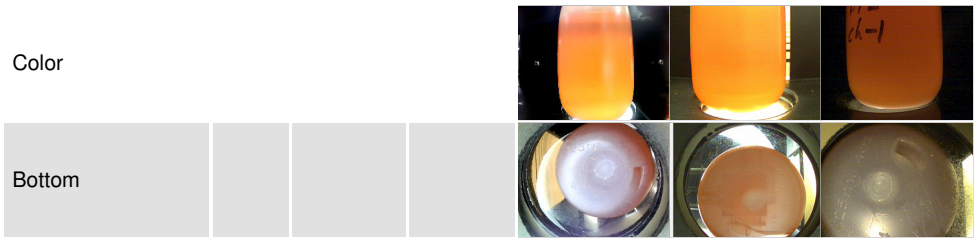
# OIL ANALYSIS REPORT



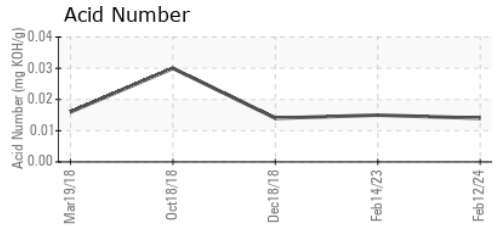
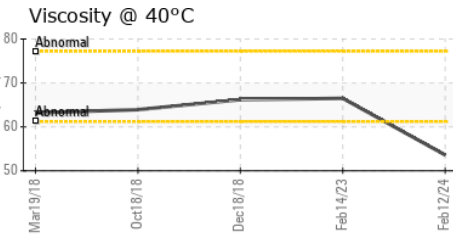
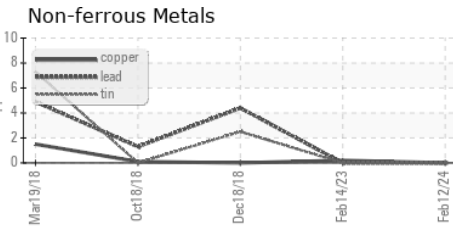
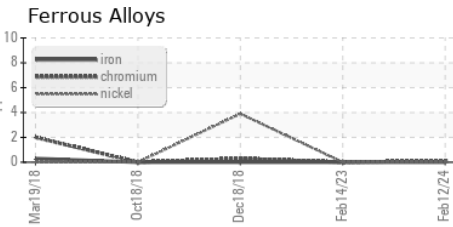
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | NONE     |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | NONE     |
| 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    | >0.01   | NEG      | NEG      |
| Free Water       | scalar | *Visual    |         | NEG      | NEG      |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D445  | 53.6    | 66.5     | 66.2     |

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



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0827299 **Received** : 27 Feb 2024  
**Lab Number** : 06101683 **Tested** : 29 Feb 2024  
**Unique Number** : 10899913 **Diagnosed** : 29 Feb 2024 - Jonathan Hester  
**Test Package** : PLANT

**DAIKIN APPLIED - AUBURN HILLS**  
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 AUBURN HILLS, MI  
 US 48326  
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 T: (248)364-4532  
 F: (248)364-4530

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)