



PROBLEM SUMMARY

Sample Rating Trend



WEAR



Machine Id

RC-3 (S/N 0045)

Component

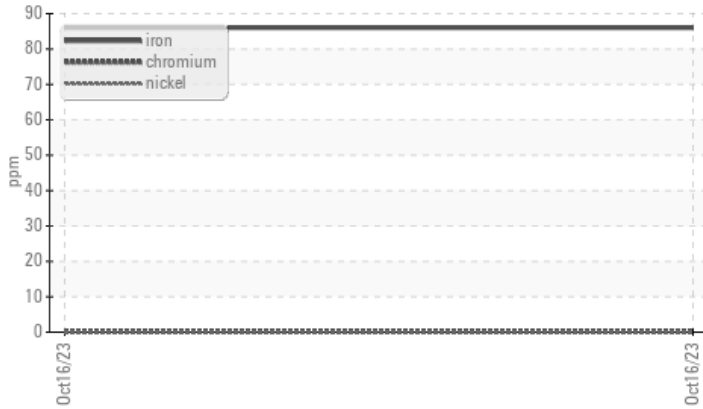
Refrigeration Compressor

Fluid

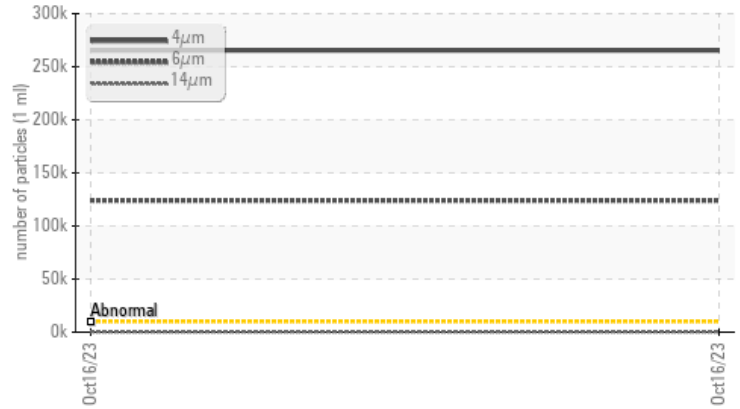
FRICK COMPRESSOR OIL #11 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Ferrous Alloys



▲ Particle Trend



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

| Sample Status | | | | ABNORMAL | --- | --- |
|-----------------|-----|--------------|-----------|-------------------|-----|-----|
| Iron | ppm | ASTM D5185m | >8 | ▲ 86 | --- | --- |
| Particles >4µm | | ASTM D7647 | >10000 | ▲ 265333 | --- | --- |
| Particles >6µm | | ASTM D7647 | >2500 | ▲ 123993 | --- | --- |
| Particles >14µm | | ASTM D7647 | >320 | ▲ 362 | --- | --- |
| Oil Cleanliness | | ISO 4406 (c) | >20/18/15 | ▲ 25/24/16 | --- | --- |

Customer Id: TYSKEYGAD

Sample No.: USP0003004

Lab Number: 05996768

Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:

Doug Bogart +1 (800)237-1369 x4016

dougb@wearcheckusa.com

To change component or sample information:

Customer Service +1 1-800-237-1369

customerservice@wearcheck.com

RECOMMENDED ACTIONS

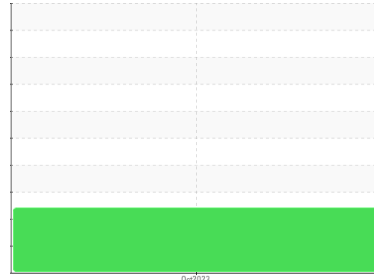
| Action | Status | Date | Done By | Description |
|---------------|--------|------|---------|---|
| Change Filter | --- | --- | ? | We recommend you service the filters on this component. |

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
RC-3 (S/N 0045)
 Component
Refrigeration Compressor
 Fluid
FRICK COMPRESSOR OIL #11 (--- GAL)

DIAGNOSIS

▲ Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

▲ Wear

The iron level is abnormal.

▲ Contamination

There is a high amount of particulates present 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 | USP0003004 | --- | --- |
| Sample Date | Client Info | 16 Oct 2023 | --- | --- |
| Machine Age | hrs Client Info | 0 | --- | --- |
| Oil Age | hrs Client Info | 0 | --- | --- |
| Oil Changed | Client Info | N/A | --- | --- |
| Sample Status | | ABNORMAL | --- | --- |

WEAR METALS

| method | limit/base | current | history1 | history2 |
|--------------------------|------------|--------------|----------|----------|
| Iron ppm ASTM D5185m | >8 | ▲ 86 | --- | --- |
| Chromium ppm ASTM D5185m | >2 | <1 | --- | --- |
| Nickel ppm ASTM D5185m | | 0 | --- | --- |
| Titanium ppm ASTM D5185m | | 0 | --- | --- |
| Silver ppm ASTM D5185m | >2 | 0 | --- | --- |
| Aluminum ppm ASTM D5185m | >3 | <1 | --- | --- |
| Lead ppm ASTM D5185m | >2 | 0 | --- | --- |
| Copper ppm ASTM D5185m | >8 | 2 | --- | --- |
| Tin ppm ASTM D5185m | >4 | 0 | --- | --- |
| Vanadium ppm ASTM D5185m | | 0 | --- | --- |
| Cadmium ppm ASTM D5185m | | 0 | --- | --- |

ADDITIVES

| method | limit/base | current | history1 | history2 |
|----------------------------|------------|----------|----------|----------|
| Boron ppm ASTM D5185m | | 0 | --- | --- |
| Barium ppm ASTM D5185m | | 0 | --- | --- |
| Molybdenum ppm ASTM D5185m | | 0 | --- | --- |
| Manganese ppm ASTM D5185m | | 0 | --- | --- |
| Magnesium ppm ASTM D5185m | | 0 | --- | --- |
| Calcium ppm ASTM D5185m | | 2 | --- | --- |
| Phosphorus ppm ASTM D5185m | | 0 | --- | --- |
| Zinc ppm ASTM D5185m | | 2 | --- | --- |
| Sulfur ppm ASTM D5185m | | 0 | --- | --- |

CONTAMINANTS

| method | limit/base | current | history1 | history2 |
|---------------------------|------------|--------------|----------|----------|
| Silicon ppm ASTM D5185m | >15 | 1 | --- | --- |
| Sodium ppm ASTM D5185m | | 0 | --- | --- |
| Potassium ppm ASTM D5185m | >20 | 2 | --- | --- |
| Water % ASTM D6304 | >0.01 | 0.003 | --- | --- |
| ppm Water ppm ASTM D6304 | >100 | 27.9 | --- | --- |

FLUID CLEANLINESS

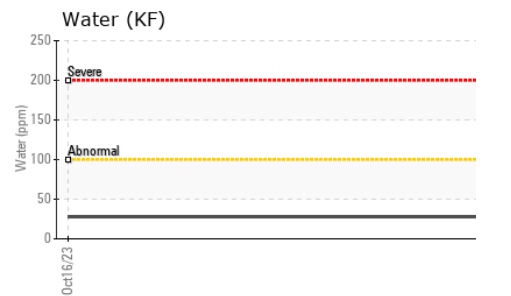
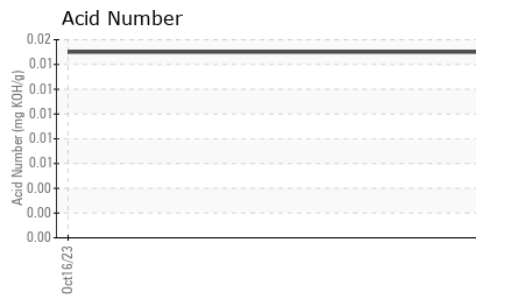
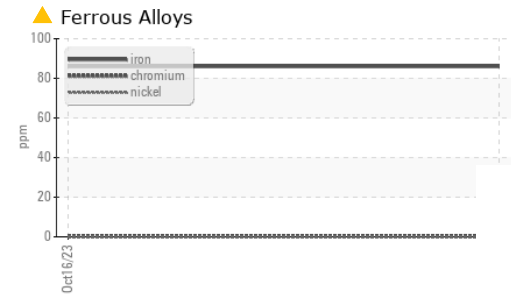
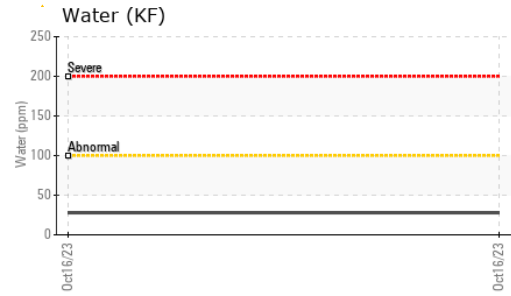
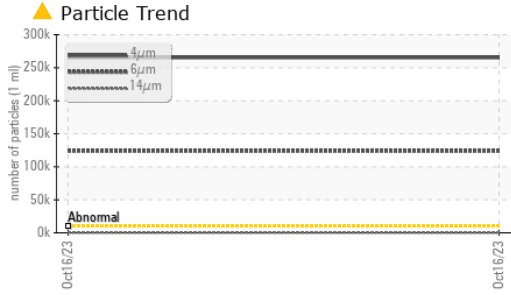
| method | limit/base | current | history1 | history2 |
|------------------------------|------------|-------------------|----------|----------|
| Particles >4µm ASTM D7647 | >10000 | ▲ 265333 | --- | --- |
| Particles >6µm ASTM D7647 | >2500 | ▲ 123993 | --- | --- |
| Particles >14µm ASTM D7647 | >320 | ▲ 362 | --- | --- |
| Particles >21µm ASTM D7647 | >80 | 16 | --- | --- |
| Particles >38µm ASTM D7647 | >20 | 1 | --- | --- |
| Particles >71µm ASTM D7647 | >4 | 0 | --- | --- |
| Oil Cleanliness ISO 4406 (c) | >20/18/15 | ▲ 25/24/16 | --- | --- |

FLUID DEGRADATION

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



OIL ANALYSIS REPORT



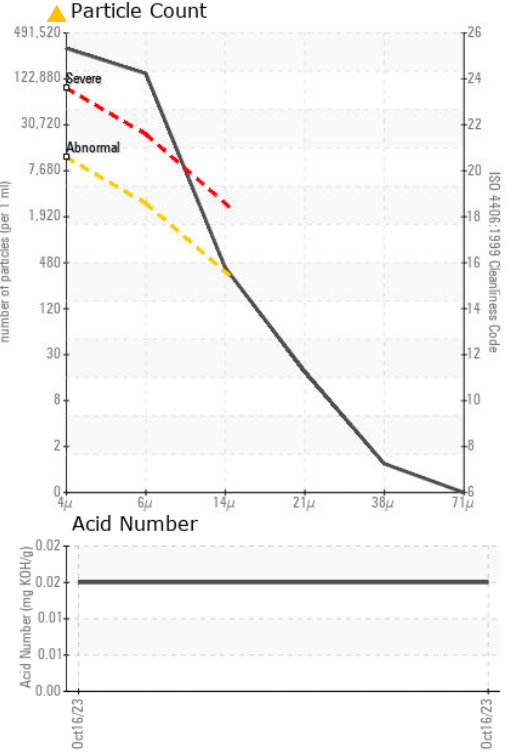
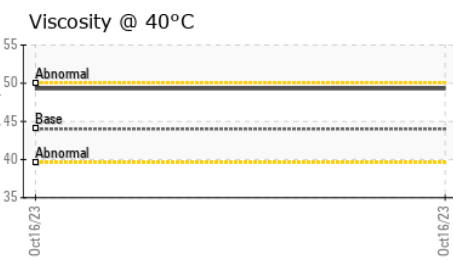
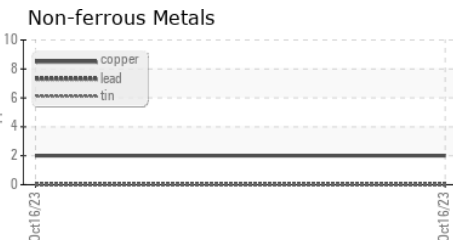
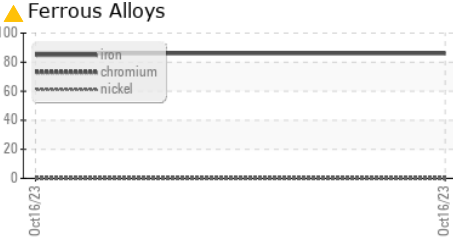
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE | --- |
| Silt | scalar | *Visual | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | LIGHT | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.01 | NEG | --- |
| Free Water | scalar | *Visual | | NEG | --- |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 44.0 | 49.3 | --- |

| 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. : USP0003004
 Lab Number : 05996768
 Unique Number : 10725128
 Test Package : IND 2

TYSON KEYSTONE - GADSDEN
 2281 STEELE STATION RD
 RAINBOW CITY, AL
 US 35906
 Contact: Service Manager

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: