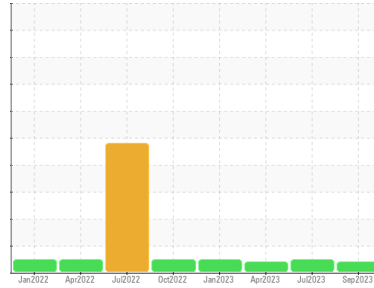


PROBLEM SUMMARY

Area
[98498096]
 Machine Id
KR-GF-003169 - TUMBLER 3 (S/N TUMBLE ROOM - 11513089)
 Component
Gearbox
 Fluid
SCHAEFFER 293A SUPREME GEAR LUBE NO TACK 220 (16 QTS)

Sample Rating Trend



VIS DEBRIS



COMPONENT CONDITION SUMMARY

No relevant graphs to display

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

PROBLEMATIC TEST RESULTS

| Sample Status | | | | ABNORMAL | NORMAL | ATTENTION |
|---------------|--------|---------|------|----------|--------|-----------|
| Debris | scalar | *Visual | NONE | ▲ MODER | NONE | NONE |

Customer Id: KRAKIR
Sample No.: PCA0106500
Lab Number: 05967758
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Jonathan Hester +1 919-379-4092 x4092
jhester@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. |
| Alert | --- | --- | ? | We were unable to perform a particle count due to a high concentration of particles present in this sample. |

HISTORICAL DIAGNOSIS

31 Jul 2023 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report



22 Apr 2023 Diag: Jonathan Hester

VISCOSITY



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. Confirm oil type.

view report



16 Jan 2023 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report

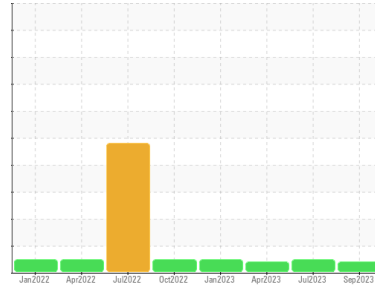


OIL ANALYSIS REPORT

Sample Rating Trend

VIS DEBRIS

Area
[98498096]
 Machine Id
KR-GF-003169 - TUMBLER 3 (S/N TUMBLE ROOM - 11513089)
 Component
Gearbox
 Fluid
SCHAEFFER 293A SUPREME GEAR LUBE NO TACK 220 (16 QTS)



DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris 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 | PCA0106500 | PCA0101715 | PCA0095514 |
| Sample Date | Client Info | 27 Sep 2023 | 31 Jul 2023 | 22 Apr 2023 |
| Machine Age | hrs | Client Info | 0 | 0 |
| Oil Age | hrs | Client Info | 0 | 0 |
| Oil Changed | Client Info | N/A | N/A | N/A |
| Sample Status | | ABNORMAL | NORMAL | ATTENTION |

WEAR METALS

| method | limit/base | current | history1 | history2 | |
|----------|------------|------------------|--------------|----------|----|
| Iron | ppm | ASTM D5185m >200 | 12 | <1 | <1 |
| Chromium | ppm | ASTM D5185m >15 | 0 | 1 | 0 |
| Nickel | ppm | ASTM D5185m >15 | 0 | 1 | 0 |
| Titanium | ppm | ASTM D5185m | 0 | 1 | 0 |
| Silver | ppm | ASTM D5185m | 0 | 3 | 0 |
| Aluminum | ppm | ASTM D5185m >25 | 0 | 0 | 0 |
| Lead | ppm | ASTM D5185m >100 | 0 | 8 | 0 |
| Copper | ppm | ASTM D5185m >200 | <1 | 2 | 0 |
| Tin | ppm | ASTM D5185m >25 | 0 | 2 | 0 |
| Vanadium | ppm | ASTM D5185m | 0 | 2 | 0 |
| Cadmium | ppm | ASTM D5185m | 0 | <1 | 0 |

ADDITIVES

| method | limit/base | current | history1 | history2 | |
|------------|------------|-------------|--------------|----------|-----|
| Boron | ppm | ASTM D5185m | 0 | 1 | 0 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | <1 | 1 | 3 |
| Manganese | ppm | ASTM D5185m | <1 | <1 | 0 |
| Magnesium | ppm | ASTM D5185m | <1 | 19 | 0 |
| Calcium | ppm | ASTM D5185m | 10 | 0 | <1 |
| Phosphorus | ppm | ASTM D5185m | 271 | 162 | 618 |
| Zinc | ppm | ASTM D5185m | 18 | 0 | <1 |
| Sulfur | ppm | ASTM D5185m | 12890 | 13805 | 719 |

CONTAMINANTS

| method | limit/base | current | history1 | history2 | |
|-----------|------------|-----------------|--------------|----------|----|
| Silicon | ppm | ASTM D5185m >50 | 2 | 3 | <1 |
| Sodium | ppm | ASTM D5185m | <1 | 44 | 0 |
| Potassium | ppm | ASTM D5185m >20 | <1 | 102 | <1 |

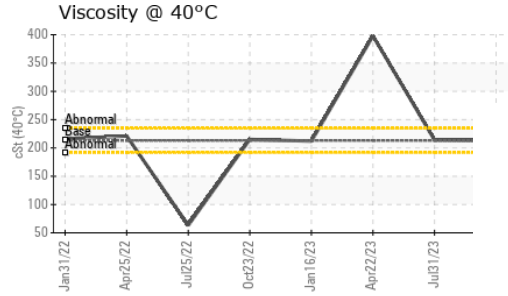
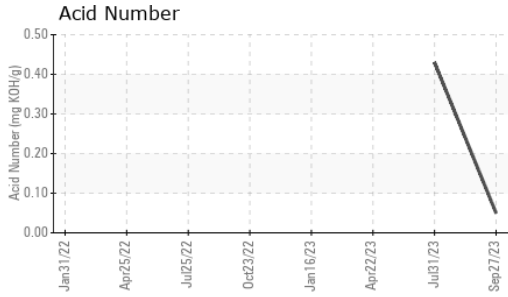
FLUID DEGRADATION

| method | limit/base | current | history1 | history2 | |
|------------------|------------|------------|-------------|----------|-----|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.05 | 0.43 | --- |

VISUAL

| method | limit/base | current | history1 | history2 | |
|------------------|------------|---------------|----------------|----------|-------|
| White Metal | scalar | *Visual NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual NONE | ▲ MODER | NONE | NONE |
| Sand/Dirt | scalar | *Visual NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual >0.2 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | NEG | NEG | NEG |

OIL ANALYSIS REPORT

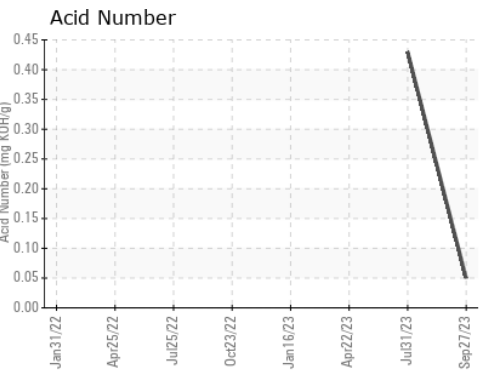
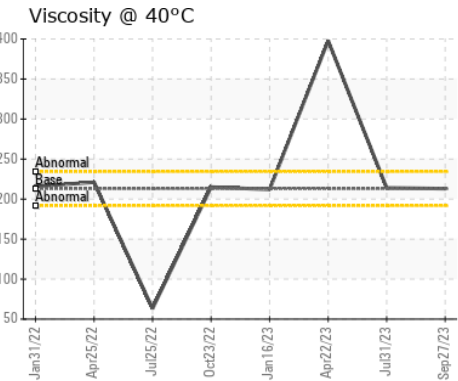
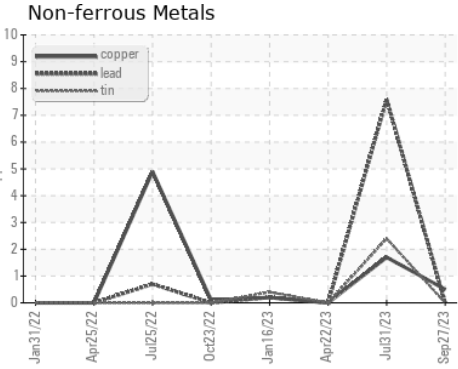
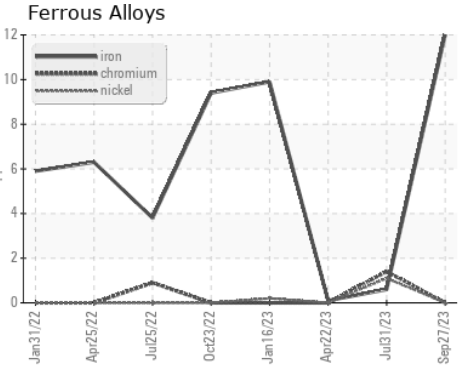


| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|------------------|-----|-----------|------------|------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 213 | 213 | 214 | ▲ 397.8 |

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

| | | | |
|--------|--|--|----------|
| Color | | | no image |
| Bottom | | | no image |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0106500
Lab Number : 05967758
Unique Number : 10674309
Test Package : IND 2 (Additional Tests: PrtCount)

KraftHeinz - Kirksville - Plant 8333 PCA
 2504 INDUSTRIAL DR
 KIRKSVILLE, MO
 US 63501
 Contact: WALLACE WARD
 wallace.ward@kraftheinzcompany.com
 T: (660)627-1031
 F: (660)627-5887

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)