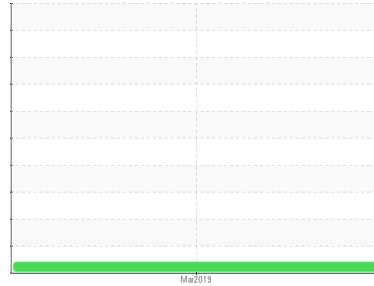




PROBLEM SUMMARY

Sample Rating Trend



VIS DEBRIS



Machine Id
CULLOM CULLOM 315-64 CORRUGATOR-007
 Component
Gearbox
 Fluid
SHELL OMALA 320 (--- GAL)

COMPONENT CONDITION SUMMARY

No relevant graphs to display

RECOMMENDATION

We suspect abnormal contamination may be due to sampling method. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

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

Customer Id: PRIFRE
Sample No.: WCI2347039
Lab Number: 04670475
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

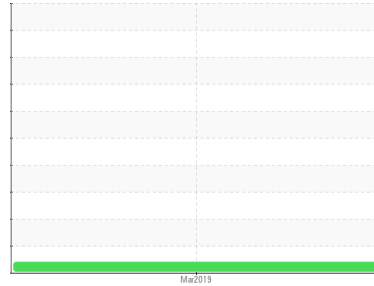
HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

VIS DEBRIS



Machine Id
CULLOM CULLOM 315-64 CORRUGATOR-007
 Component
Gearbox
 Fluid
SHELL OMALA 320 (--- GAL)

DIAGNOSIS

▲ Recommendation

We suspect abnormal contamination may be due to sampling method. No corrective action is recommended at this time. Resample at the next service interval to monitor.

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 | | WCI2347039 | --- | --- |
| Sample Date | Client Info | | 07 Mar 2019 | --- | --- |
| Machine Age | hrs | Client Info | 0 | --- | --- |
| Oil Age | hrs | Client Info | 0 | --- | --- |
| Oil Changed | Client Info | | N/A | --- | --- |
| Sample Status | | | ABNORMAL | --- | --- |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.2 | NEG | --- | --- |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >200 | 22 | --- | --- |
| Chromium | ppm | ASTM D5185m >15 | <1 | --- | --- |
| Nickel | ppm | ASTM D5185m >15 | 0 | --- | --- |
| Titanium | ppm | ASTM D5185m | 0 | --- | --- |
| Silver | ppm | ASTM D5185m | <1 | --- | --- |
| Aluminum | ppm | ASTM D5185m >25 | 0 | --- | --- |
| Lead | ppm | ASTM D5185m >100 | 0 | --- | --- |
| Copper | ppm | ASTM D5185m >200 | 0 | --- | --- |
| Tin | ppm | ASTM D5185m >25 | 0 | --- | --- |
| Antimony | ppm | ASTM D5185m | 0 | --- | --- |
| Vanadium | ppm | ASTM D5185m | 0 | --- | --- |
| Cadmium | ppm | ASTM D5185m | 0 | --- | --- |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|------------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m 5.5 | <1 | --- | --- |
| Barium | ppm | ASTM D5185m 0.4 | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m 0.5 | 0 | --- | --- |
| Manganese | ppm | ASTM D5185m | <1 | --- | --- |
| Magnesium | ppm | ASTM D5185m 23 | <1 | --- | --- |
| Calcium | ppm | ASTM D5185m 13 | 3 | --- | --- |
| Phosphorus | ppm | ASTM D5185m 450 | 237 | --- | --- |
| Zinc | ppm | ASTM D5185m 9.9 | 6 | --- | --- |
| Sulfur | ppm | ASTM D5185m 8181 | 11369 | --- | --- |

CONTAMINANTS

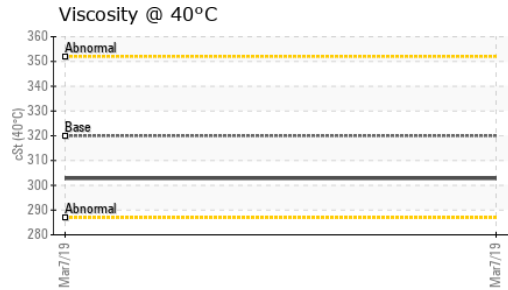
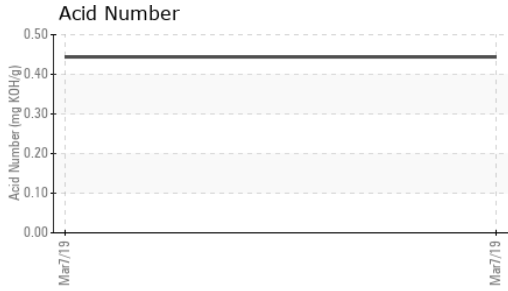
| | method | limit/base | current | history1 | history2 |
|-----------|--------|-----------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m >50 | 2 | --- | --- |
| Sodium | ppm | ASTM D5185m | <1 | --- | --- |
| Potassium | ppm | ASTM D5185m >20 | <1 | --- | --- |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|------------|--------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.444 | --- | --- |



OIL ANALYSIS REPORT



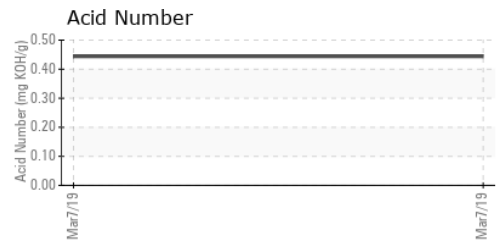
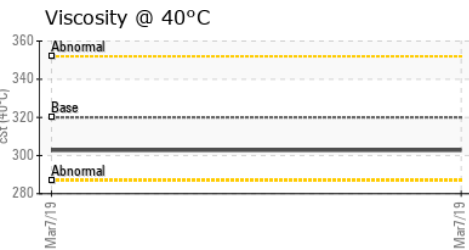
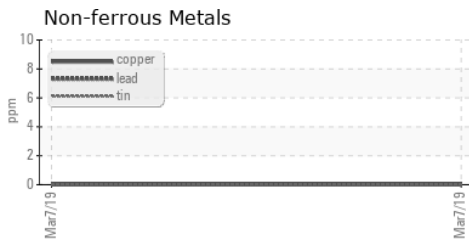
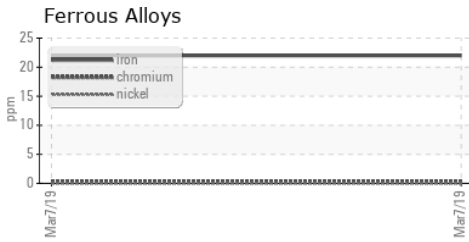
| VISUAL | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|----------------|----------|-----|
| White Metal | scalar | *Visual | NONE | LIGHT | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Precipitate | scalar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

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|--------------|----------|-----|
| Visc @ 40°C | cSt | ASTM D445 | 320 | 302.8 | --- | --- |

| 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. : WC12347039 **Received** : 14 Mar 2019
Lab Number : **04670475** **Diagnosed** : 15 Mar 2019
Unique Number : 8526981 **Diagnostician** : Don Baldrige
Test Package : IND 2

PRINSCO - FRESNO
 2839 S CHERRY AVE
 FRESNO, CA
 US 93706

Contact: FRANCISCO MONTES
francisco.montes@prinSCO.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)

T:
F: