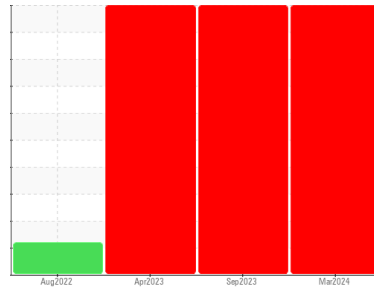




PROBLEM SUMMARY

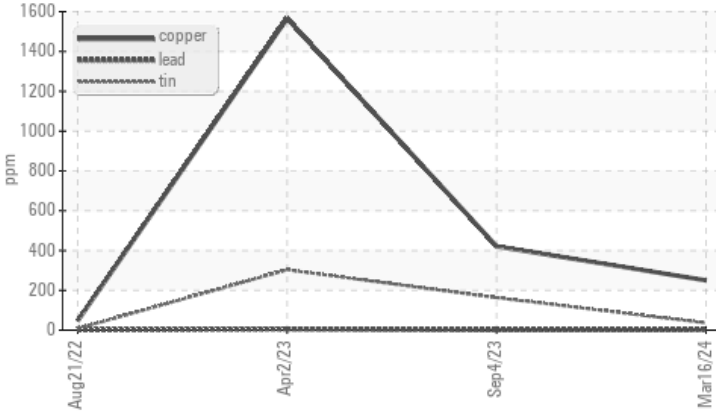
Area
Building 19
 Machine Id
West Pugmill (East GBX)
 Component
East Agitator Gearbox
 Fluid
MOBIL GLYGOYLE HE ISO 460 (--- GAL)

Sample Rating Trend



COMPONENT CONDITION SUMMARY

▲ Non-ferrous Metals



RECOMMENDATION

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

| Sample Status | | | | SEVERE | SEVERE | SEVERE |
|---------------|--------|-------------|------|---------|--------|---------|
| Copper | ppm | ASTM D5185m | >50 | ▲ 250 | ▲ 421 | ▲ 1566 |
| Tin | ppm | ASTM D5185m | >10 | ▲ 36 | ▲ 163 | ▲ 303 |
| Yellow Metal | scalar | *Visual | NONE | ▲ HEAVY | NONE | ▲ HEAVY |

Customer Id: THRPIT
 Sample No.: WC0901935
 Lab Number: 06140060
 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

| Action | Status | Date | Done By | Description |
|---------------------|--------|------|---------|---|
| Inspect Wear Source | --- | --- | ? | We advise that you inspect for the source(s) of wear. |
| Resample | --- | --- | ? | We recommend an early resample to monitor this condition. |

HISTORICAL DIAGNOSIS

WEAR



04 Sep 2023 Diag: Don Baldrige

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Bearing and/or bushing wear is indicated. No other contaminants were detected in the oil. The AN level is acceptable for this fluid.

[view report](#)



WEAR



02 Apr 2023 Diag: Doug Bogart

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Bearing and/or gear wear is indicated. High concentration of visible metal present. No other contaminants were detected in the oil. The AN level is acceptable for this fluid.

[view report](#)



VISUAL METAL



21 Aug 2022 Diag: Angela Borella

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. Moderate concentration of visible metal present. All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 680 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

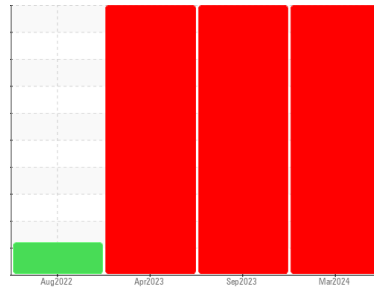
[view report](#)





OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area

Building 19

Machine Id

West Pugmill (East GBX)

Component

East Agitator Gearbox

Fluid

MOBIL GLYGOYLE HE ISO 460 (--- GAL)

DIAGNOSIS

▲ Recommendation

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

▲ Wear

Bearing and/or bushing wear is indicated. High concentration of visible yellow metal present.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | WC0901935 | WC0820064 | WC0782532 |
| Sample Date | Client Info | | 16 Mar 2024 | 04 Sep 2023 | 02 Apr 2023 |
| Machine Age | hrs | Client Info | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | 0 | 0 | 0 |
| Oil Changed | Client Info | | Not Chngd | Not Chngd | N/A |
| Sample Status | | | SEVERE | SEVERE | SEVERE |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.1 | NEG | NEG | NEG |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >150 | 14 | 129 | ▲ 993 |
| Chromium | ppm | ASTM D5185m >10 | 0 | 2 | 3 |
| Nickel | ppm | ASTM D5185m >10 | 5 | ▲ 22 | ▲ 38 |
| Titanium | ppm | ASTM D5185m | 0 | <1 | <1 |
| Silver | ppm | ASTM D5185m | 0 | <1 | <1 |
| Aluminum | ppm | ASTM D5185m >25 | 1 | 5 | 4 |
| Lead | ppm | ASTM D5185m >100 | <1 | 0 | 5 |
| Copper | ppm | ASTM D5185m >50 | ▲ 250 | ▲ 421 | ▲ 1566 |
| Tin | ppm | ASTM D5185m >10 | ▲ 36 | ▲ 163 | ▲ 303 |
| Vanadium | ppm | ASTM D5185m | 0 | 0 | <1 |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | <1 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|-------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | 0 | <1 | 4 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | <1 | 0 | 2 |
| Manganese | ppm | ASTM D5185m | <1 | 1 | 6 |
| Magnesium | ppm | ASTM D5185m | 1 | 2 | 13 |
| Calcium | ppm | ASTM D5185m | 0 | <1 | 7 |
| Phosphorus | ppm | ASTM D5185m | 443 | 68 | 490 |
| Zinc | ppm | ASTM D5185m | 0 | 0 | 16 |
| Sulfur | ppm | ASTM D5185m | 916 | 997 | 1402 |

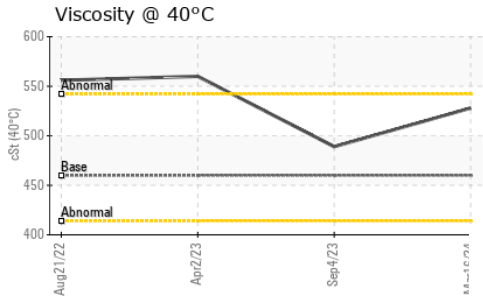
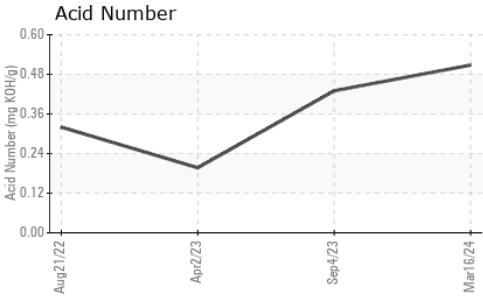
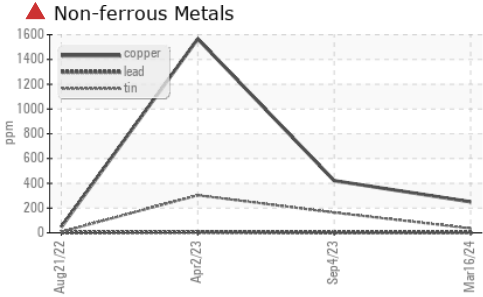
CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-----------------|----------|----------|----------|
| Silicon | ppm | ASTM D5185m >50 | 6 | 4 | 15 |
| Sodium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Potassium | ppm | ASTM D5185m >20 | 2 | <1 | 4 |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|------------|--------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.508 | 0.43 | 0.197 |

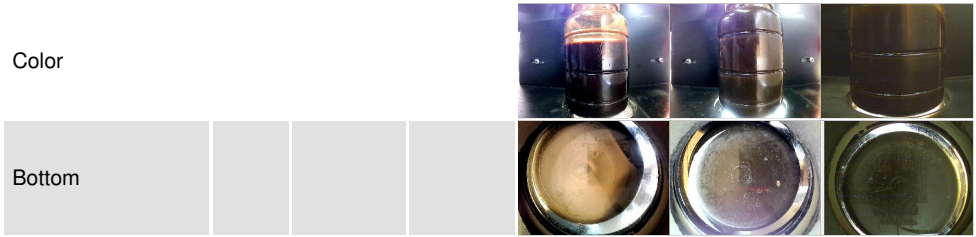
OIL ANALYSIS REPORT



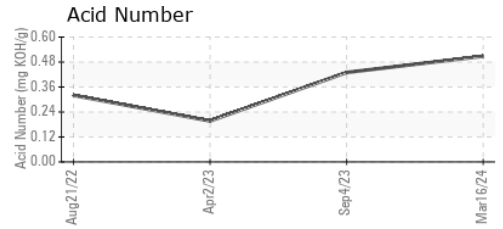
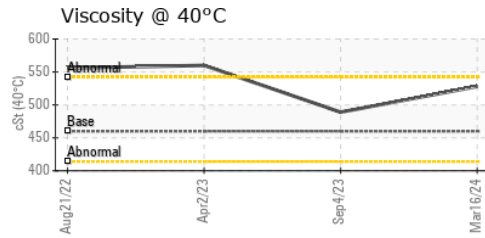
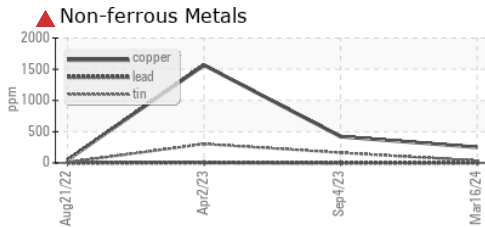
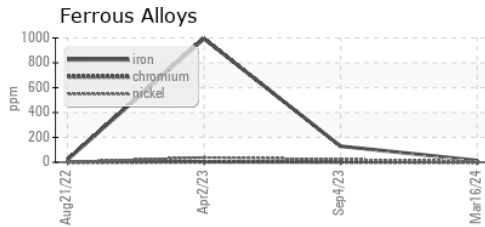
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | ▲ HEAVY | NONE | ▲ HEAVY |
| Precipitate | scalar | *Visual | NONE |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

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|---------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 460 | 528 | 489 | 560 |

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



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0901935 **Received** : 05 Apr 2024
Lab Number : 06140060 **Tested** : 08 Apr 2024
Unique Number : 10964868 **Diagnosed** : 08 Apr 2024 - Don Baldrige
Test Package : IND 2

3M - PITTSBORO
 4191 NC 87 S
 MONCURE, NC
 US 27559

Contact: CHARLES JARRELL
cjarrell@mmm.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: