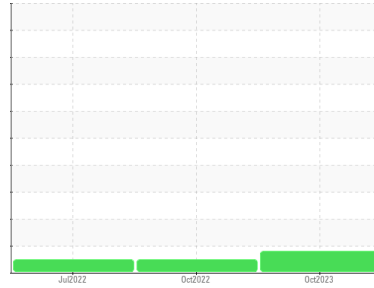




# PROBLEM SUMMARY

Sample Rating Trend



**SEDIMENT**



Area  
**[K46458]**  
 Machine Id  
**VNN125014151 - NATIONAL GYPSUM**  
 Component  
**Compressor**  
 Fluid  
**ULTIMA EL (--- GAL)**

## COMPONENT CONDITION SUMMARY

No relevant graphs to display

## RECOMMENDATION

We suspect abnormal contamination may be due to sampling method. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

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

Customer Id: THENORMA  
 Sample No.: WC0858904  
 Lab Number: 05998145  
 Test Package: PLANT



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](mailto:jhester@wearcheckusa.com)

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

## RECOMMENDED ACTIONS

| Action        | Status | Date | Done By | Description   |
|---------------|--------|------|---------|---|
| Change Fluid  | ---    | ---  | ?       | Oil and filter change at the time of sampling has been noted. |
| Change Filter | ---    | ---  | ?       | Oil and filter change at the time of sampling has been noted. |

## HISTORICAL DIAGNOSIS

### 31 Oct 2022 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 component. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

[view report](#)



### 18 Jul 2022 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 suitable for further service.

[view report](#)





# OIL ANALYSIS REPORT

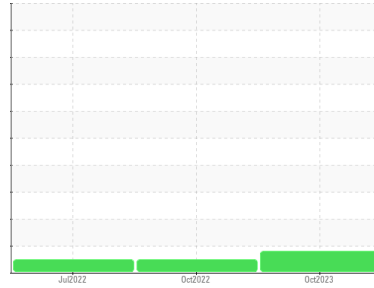
Sample Rating Trend

**SEDIMENT**

Area  
**[K46458]**

Machine Id  
**VNN125014151 - NATIONAL GYPSUM**

Component  
**Compressor**  
Fluid  
**ULTIMA EL (--- GAL)**



## DIAGNOSIS

### Recommendation

We suspect abnormal contamination may be due to sampling method. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a moderate amount of visible silt present in the sample.

### 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>WC0858904</b>   | WC0727878   | WC0712071   |
| Sample Date        | Client Info |             |            | <b>09 Oct 2023</b> | 31 Oct 2022 | 18 Jul 2022 |
| Machine Age        | hrs         | Client Info |            | <b>71692</b>       | 63646       | 0           |
| Oil Age            | hrs         | Client Info |            | <b>5921</b>        | 0           | 0           |
| Oil Changed        | Client Info |             |            | <b>Changed</b>     | Changed     | N/A         |
| Sample Status      |             |             |            | <b>ABNORMAL</b>    | NORMAL      | NORMAL      |

| WEAR METALS |     | method      | limit/base | current      | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185m | >50        | <b>0</b>     | 14       | 17       |
| Chromium    | ppm | ASTM D5185m | >10        | <b>&lt;1</b> | 0        | 0        |
| Nickel      | ppm | ASTM D5185m |            | <b>0</b>     | <1       | 0        |
| Titanium    | ppm | ASTM D5185m |            | <b>0</b>     | 0        | 0        |
| Silver      | ppm | ASTM D5185m |            | <b>0</b>     | 0        | 0        |
| Aluminum    | ppm | ASTM D5185m | >25        | <b>2</b>     | 1        | <1       |
| Lead        | ppm | ASTM D5185m | >25        | <b>0</b>     | 0        | <1       |
| Copper      | ppm | ASTM D5185m | >50        | <b>0</b>     | 4        | 5        |
| Tin         | ppm | ASTM D5185m | >15        | <b>0</b>     | 0        | 1        |
| Vanadium    | ppm | ASTM D5185m |            | <b>0</b>     | 0        | 0        |
| Cadmium     | ppm | ASTM D5185m |            | <b>0</b>     | 0        | <1       |

| ADDITIVES  |     | method      | limit/base | current      | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron      | ppm | ASTM D5185m |            | <b>0</b>     | <1       | 5        |
| Barium     | ppm | ASTM D5185m |            | <b>20</b>    | 310      | 314      |
| Molybdenum | ppm | ASTM D5185m |            | <b>0</b>     | 0        | 0        |
| Manganese  | ppm | ASTM D5185m |            | <b>0</b>     | 0        | <1       |
| Magnesium  | ppm | ASTM D5185m |            | <b>&lt;1</b> | <1       | 2        |
| Calcium    | ppm | ASTM D5185m |            | <b>&lt;1</b> | 4        | 3        |
| Phosphorus | ppm | ASTM D5185m |            | <b>71</b>    | 81       | 93       |
| Zinc       | ppm | ASTM D5185m |            | <b>3</b>     | 105      | 138      |
| Sulfur     | ppm | ASTM D5185m |            | <b>250</b>   | 491      | 447      |

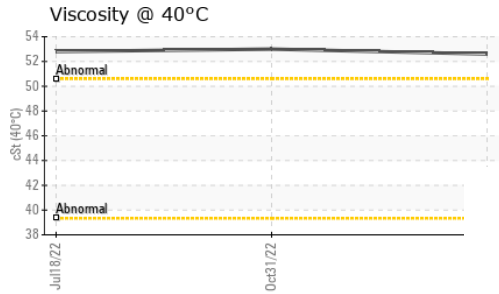
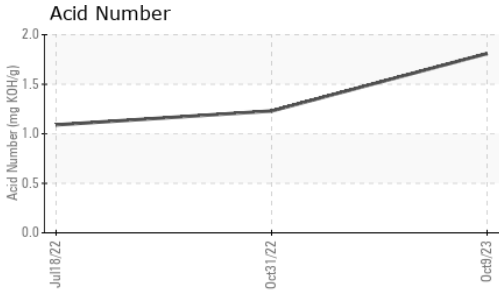
| CONTAMINANTS |     | method      | limit/base | current      | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >25        | <b>&lt;1</b> | 7        | 8        |
| Sodium       | ppm | ASTM D5185m |            | <b>4</b>     | 56       | 55       |
| Potassium    | ppm | ASTM D5185m | >20        | <b>&lt;1</b> | 4        | 6        |

| FLUID DEGRADATION |          | method     | limit/base | current     | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN)  | mg KOH/g | ASTM D8045 |            | <b>1.81</b> | 1.23     | 1.09     |

| VISUAL           |        | method  | limit/base | current        | history1 | history2 |
|------------------|--------|---------|------------|----------------|----------|----------|
| White Metal      | scalar | *Visual | NONE       | <b>NONE</b>    | LIGHT    | LIGHT    |
| Yellow Metal     | scalar | *Visual | NONE       | <b>NONE</b>    | NONE     | NONE     |
| Precipitate      | scalar | *Visual | NONE       | <b>NONE</b>    | NONE     | NONE     |
| Silt             | scalar | *Visual | NONE       | <b>▲ MODER</b> | NONE     | NONE     |
| Debris           | scalar | *Visual | NONE       | <b>NONE</b>    | NONE     | NONE     |
| Sand/Dirt        | scalar | *Visual | NONE       | <b>NONE</b>    | NONE     | NONE     |
| Appearance       | scalar | *Visual | NORML      | <b>NORML</b>   | NORML    | NORML    |
| Odor             | scalar | *Visual | NORML      | <b>NORML</b>   | NORML    | NORML    |
| Emulsified Water | scalar | *Visual | >0.1       | <b>NEG</b>     | NEG      | NEG      |
| Free Water       | scalar | *Visual |            | <b>NEG</b>     | NEG      | NEG      |

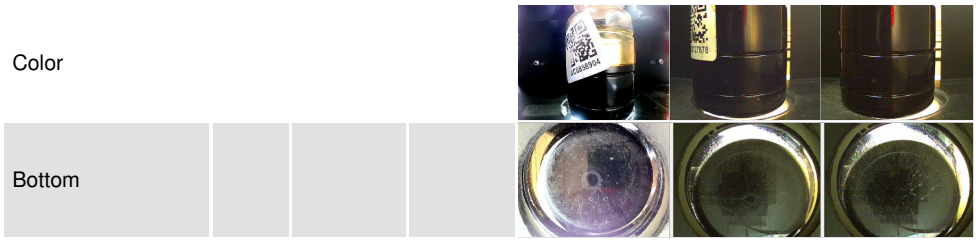


# OIL ANALYSIS REPORT

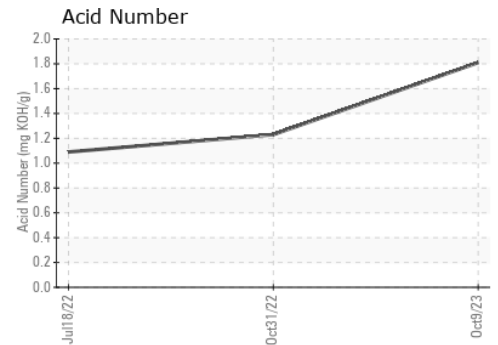
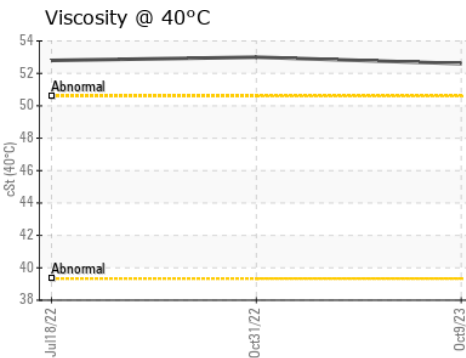
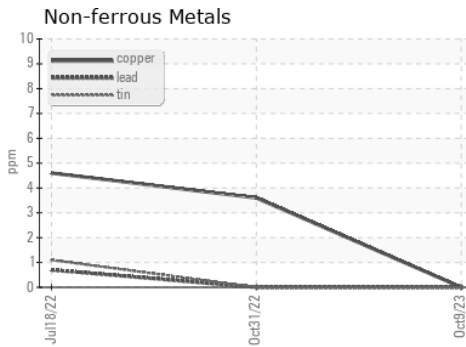
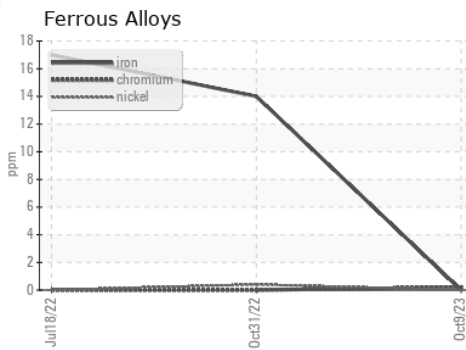


| FLUID PROPERTIES | method | limit/base | current     | history1 | history2 |
|------------------|--------|------------|-------------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D445  | <b>52.6</b> | 53.0     | 52.8     |

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



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0858904 **Received** : 03 Nov 2023  
**Lab Number** : **05998145** **Diagnosed** : 07 Nov 2023  
**Unique Number** : 10726505 **Diagnostician** : Jonathan Hester  
**Test Package** : PLANT

**THE HOPE GROUP**  
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 Contact: BOB BRIGHAM  
 bbrigham@thehopegroup.com  
 T: (508)393-7660  
 F: (508)393-6173

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)