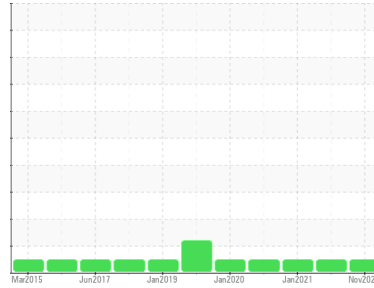




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**SULLAIR 201209120079 - GKN**

Component  
**Compressor**  
Fluid  
**SULLAIR SULLUBE (5 GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination 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 |             |            | <b>WC0874241</b>   | WC0652711   | WC0539037   |
| Sample Date        | Client Info |             |            | <b>27 Nov 2023</b> | 24 Jan 2022 | 20 Jan 2021 |
| Machine Age        | hrs         | Client Info |            | <b>42546</b>       | 37015       | 34002       |
| Oil Age            | hrs         | Client Info |            | <b>1953</b>        | 3600        | 606         |
| Oil Changed        | Client Info |             |            | <b>Not Changed</b> | Not Changed | Not Changed |
| Sample Status      |             |             |            | <b>NORMAL</b>      | NORMAL      | NORMAL      |

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

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

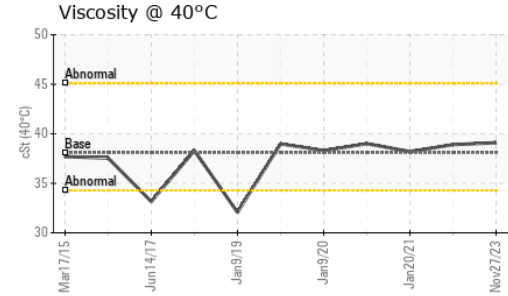
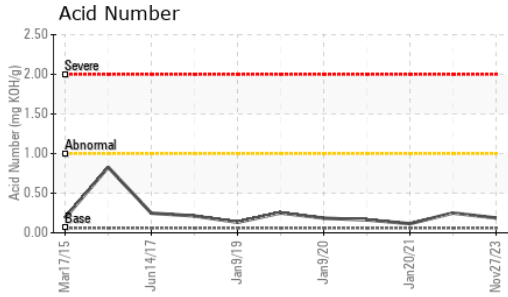
| ADDITIVES  |     | method      | limit/base | current    | history1 | history2 |
|------------|-----|-------------|------------|------------|----------|----------|
| Boron      | ppm | ASTM D5185m |            | <b>0</b>   | 2        | 0        |
| Barium     | ppm | ASTM D5185m | 745        | <b>614</b> | 440      | 698      |
| Molybdenum | ppm | ASTM D5185m | 0.0        | <b>0</b>   | 0        | 0        |
| Manganese  | ppm | ASTM D5185m |            | <b>0</b>   | <1       | 0        |
| Magnesium  | ppm | ASTM D5185m | 0.0        | <b>0</b>   | <1       | <1       |
| Calcium    | ppm | ASTM D5185m | 1          | <b>2</b>   | <1       | 2        |
| Phosphorus | ppm | ASTM D5185m | 3          | <b>3</b>   | 4        | 2        |
| Zinc       | ppm | ASTM D5185m | 0.1        | <b>2</b>   | 2        | 3        |
| Sulfur     | ppm | ASTM D5185m | 240        | <b>339</b> | 265      | 246      |

| CONTAMINANTS |     | method      | limit/base | current   | history1 | history2 |
|--------------|-----|-------------|------------|-----------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >25        | <b>1</b>  | <1       | <1       |
| Sodium       | ppm | ASTM D5185m |            | <b>19</b> | 43       | 23       |
| Potassium    | ppm | ASTM D5185m | >20        | <b>4</b>  | 2        | 0        |

| FLUID DEGRADATION |          | method     | limit/base | current      | history1 | history2 |
|-------------------|----------|------------|------------|--------------|----------|----------|
| Acid Number (AN)  | mg KOH/g | ASTM D8045 | .06        | <b>0.187</b> | 0.25     | 0.115    |



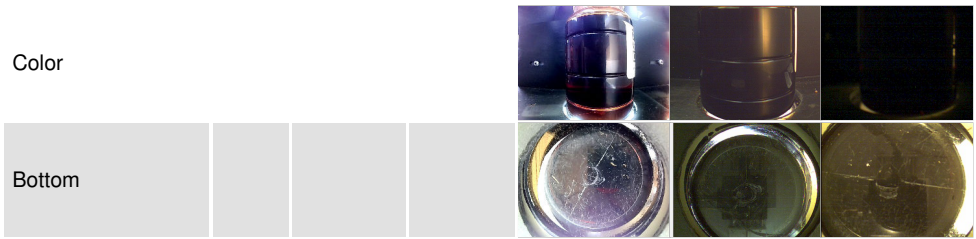
# OIL ANALYSIS REPORT



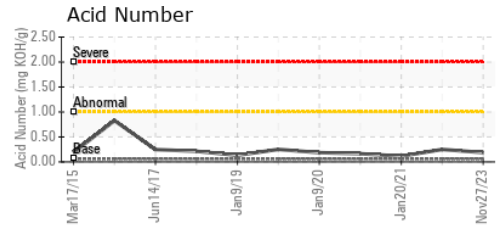
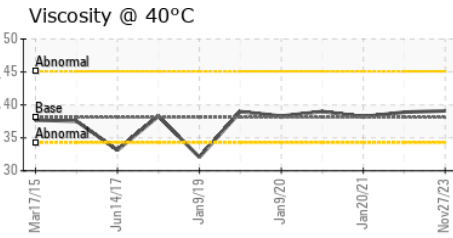
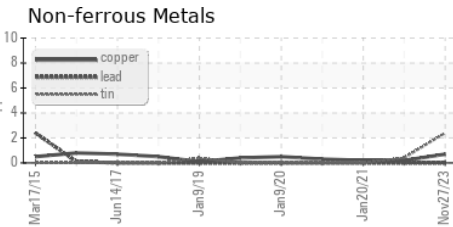
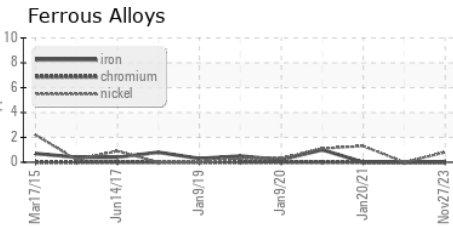
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | VLITE    | NONE     |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | NONE     |
| 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  | 38.1    | <b>39.1</b> | 38.9     | 38.2 |

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



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0874241 **Received** : 06 Dec 2023  
**Lab Number** : 06026634 **Diagnosed** : 08 Dec 2023  
**Unique Number** : 10776425 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2

**FS-COMPRESSION CO, LLC**  
 203 AERO COURT  
 GREENSBORO, NC  
 US 27409  
 Contact: Dallas Burcham  
 dallas.burcham@fs-compression.com  
 T: (336)605-9622  
 F: (336)605-9844

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)