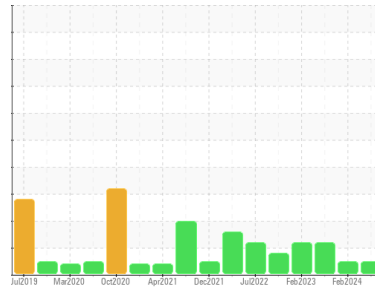




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**QGS-75 - BLDG 36 (S/N API174344)**  
 Component  
**Air Compressor**  
 Fluid  
**QUINCY QUINSYN PG (--- 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. The amount and size of particulates present in the system are acceptable.

### 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>USP0011795</b>  | USP0005520  | USP243797   |
| Sample Date   | Client Info     | <b>15 May 2024</b> | 04 Feb 2024 | 25 Jun 2023 |
| Machine Age   | hrs Client Info | <b>0</b>           | 0           | 0           |
| Oil Age       | hrs Client Info | <b>0</b>           | 0           | 0           |
| Oil Changed   | Client Info     | <b>N/A</b>         | N/A         | N/A         |
| Sample Status |                 | <b>NORMAL</b>      | NORMAL      | ATTENTION   |

## WEAR METALS

| method   | limit/base          | current      | history1 | history2 |
|----------|---------------------|--------------|----------|----------|
| Iron     | ppm ASTM D5185m >50 | <b>0</b>     | 0        | 0        |
| Chromium | ppm ASTM D5185m >4  | <b>0</b>     | 0        | 0        |
| Nickel   | ppm ASTM D5185m >4  | <b>0</b>     | 0        | <1       |
| Titanium | ppm ASTM D5185m     | <b>0</b>     | 0        | 0        |
| Silver   | ppm ASTM D5185m     | <b>&lt;1</b> | 0        | 0        |
| Aluminum | ppm ASTM D5185m >10 | <b>0</b>     | 0        | 0        |
| Lead     | ppm ASTM D5185m >20 | <b>0</b>     | 0        | 0        |
| Copper   | ppm ASTM D5185m >40 | <b>&lt;1</b> | 0        | <1       |
| Tin      | ppm ASTM D5185m >5  | <b>0</b>     | <1       | 0        |
| Vanadium | ppm ASTM D5185m     | <b>&lt;1</b> | 0        | 0        |
| Cadmium  | ppm ASTM D5185m     | <b>0</b>     | 0        | 0        |

## ADDITIVES

| method     | limit/base      | current      | history1 | history2 |
|------------|-----------------|--------------|----------|----------|
| Boron      | ppm ASTM D5185m | <b>0</b>     | 0        | 0        |
| Barium     | ppm ASTM D5185m | <b>676</b>   | 694      | 596      |
| Molybdenum | ppm ASTM D5185m | <b>0</b>     | 0        | 0        |
| Manganese  | ppm ASTM D5185m | <b>0</b>     | 0        | 0        |
| Magnesium  | ppm ASTM D5185m | <b>&lt;1</b> | 0        | 0        |
| Calcium    | ppm ASTM D5185m | <b>4</b>     | 0        | 1        |
| Phosphorus | ppm ASTM D5185m | <b>2</b>     | 0        | 0        |
| Zinc       | ppm ASTM D5185m | <b>25</b>    | 0        | 0        |
| Sulfur     | ppm ASTM D5185m | <b>583</b>   | 438      | 432      |

## CONTAMINANTS

| method    | limit/base           | current      | history1 | history2 |
|-----------|----------------------|--------------|----------|----------|
| Silicon   | ppm ASTM D5185m >25  | <b>&lt;1</b> | 0        | <1       |
| Sodium    | ppm ASTM D5185m      | <b>24</b>    | 13       | 27       |
| Potassium | ppm ASTM D5185m >20  | <b>3</b>     | 2        | 3        |
| Water     | % ASTM D6304 >0.6    | <b>0.374</b> | 0.310    | 0.500    |
| ppm Water | ppm ASTM D6304 >6000 | <b>3749</b>  | 3105     | 5005.6   |

## FLUID CLEANLINESS

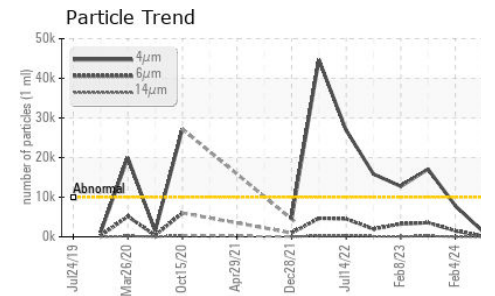
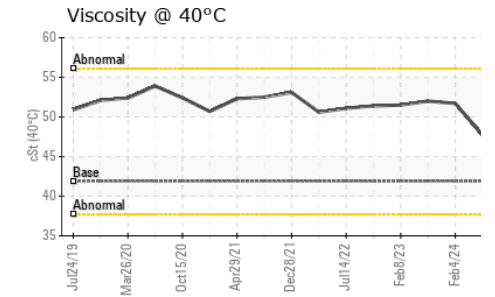
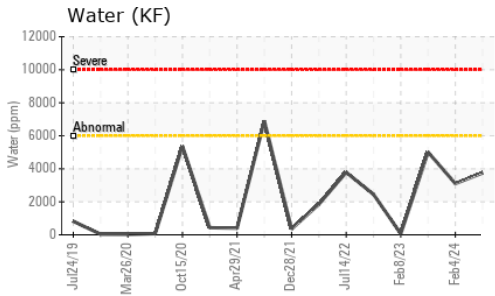
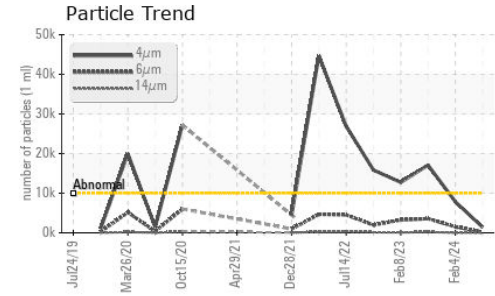
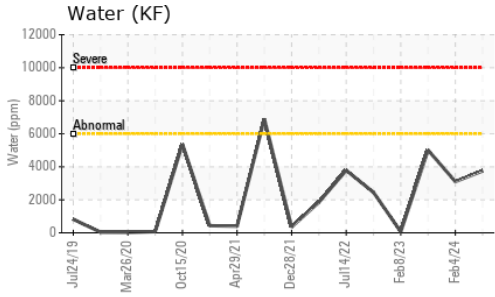
| method          | limit/base             | current         | history1 | history2 |
|-----------------|------------------------|-----------------|----------|----------|
| Particles >4µm  | ASTM D7647 >10000      | <b>1394</b>     | 7858     | 17083    |
| Particles >6µm  | ASTM D7647 >2500       | <b>176</b>      | 1522     | 3569     |
| Particles >14µm | ASTM D7647 >320        | <b>9</b>        | 30       | 201      |
| Particles >21µm | ASTM D7647 >80         | <b>2</b>        | 5        | 47       |
| Particles >38µm | ASTM D7647 >20         | <b>1</b>        | 0        | 1        |
| Particles >71µm | ASTM D7647 >4          | <b>1</b>        | 0        | 0        |
| Oil Cleanliness | ISO 4406 (c) >20/18/15 | <b>18/15/10</b> | 20/18/12 | 21/19/15 |

## FLUID DEGRADATION

| method           | limit/base          | current     | history1 | history2 |
|------------------|---------------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g ASTM D8045 | <b>0.19</b> | 0.244    | ---      |



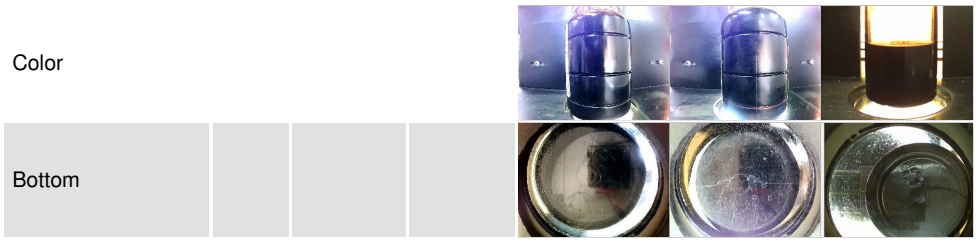
# OIL ANALYSIS REPORT



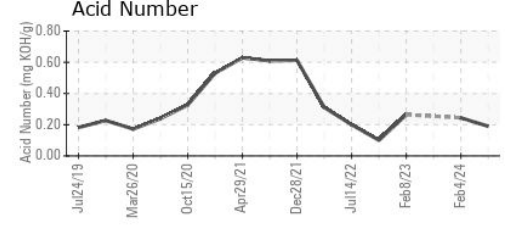
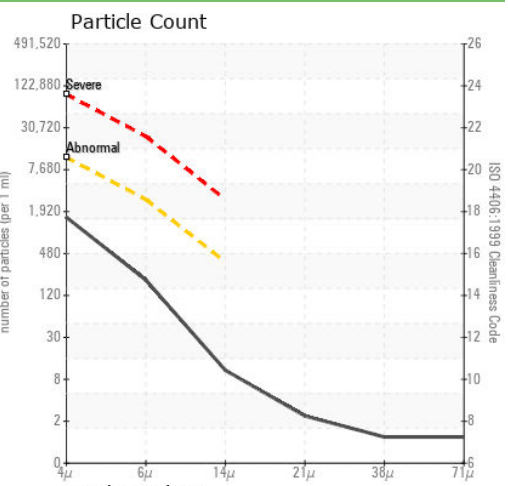
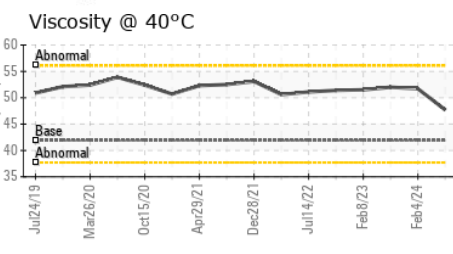
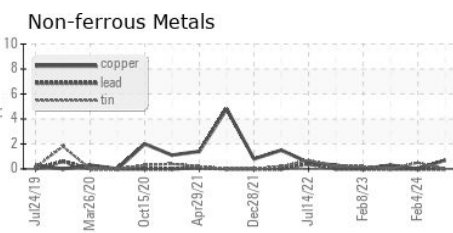
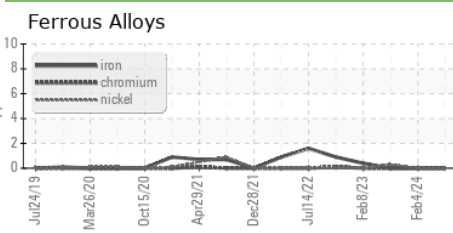
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | NONE     |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | NONE     |
| Precipitate      | scalar | *Visual    | NONE    | NONE     | NONE     |
| Silt             | scalar | *Visual    | NONE    | NONE     | NONE     |
| Debris           | scalar | *Visual    | NONE    | NONE     | LIGHT    |
| Sand/Dirt        | scalar | *Visual    | NONE    | NONE     | NONE     |
| Appearance       | scalar | *Visual    | NORML   | NORML    | NORML    |
| Odor             | scalar | *Visual    | NORML   | NORML    | NORML    |
| Emulsified Water | scalar | *Visual    | >0.6    | NEG      | NEG      |
| Free Water       | scalar | *Visual    |         | NEG      | NEG      |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D445  | 41.9    | 47.7     | 51.7     |

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



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USP0011795  
**Lab Number** : 06181347  
**Unique Number** : 11032673  
**Test Package** : IND 2  
**Received** : 16 May 2024  
**Tested** : 17 May 2024  
**Diagnosed** : 20 May 2024 - Jonathan Hester

**PINE RIDGE FARMS - SMITHFIELD - SMIDES**  
 1800 SE MAURY ST  
 DES MOINES, IA  
 US 50317  
 Contact:

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)