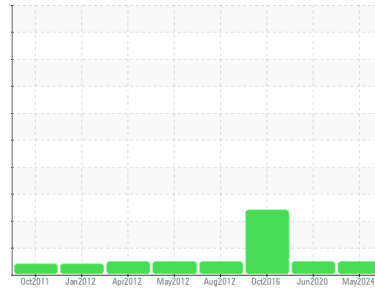




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**INGERSOLL RAND COMPRESSOR 2 (S/N CA3196U06208)**  
 Component  
**Compressor**  
 Fluid  
**INGERSOLL-RAND SSR ULTRA COOLANT (--- 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>WC0941865</b>   | WCI2344790  | WCI2295513  |
| Sample Date   | Client Info |             | <b>11 May 2024</b> | 13 Jun 2020 | 09 Oct 2016 |
| Machine Age   | hrs         | Client Info | <b>17465</b>       | 16790       | 14789       |
| Oil Age       | hrs         | Client Info | <b>10739</b>       | 1412        | 0           |
| Oil Changed   | Client Info |             | <b>N/A</b>         | Not Changd  | N/A         |
| Sample Status |             |             | <b>NORMAL</b>      | NORMAL      | ATTENTION   |

## 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>     | 2        | 1        |
| Chromium | ppm    | ASTM D5185m >10 | <b>0</b>     | 0        | 0        |
| Nickel   | ppm    | ASTM D5185m     | <b>0</b>     | <1       | <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>0</b>     | 0        | 0        |
| Lead     | ppm    | ASTM D5185m >25 | <b>0</b>     | <1       | 0        |
| Copper   | ppm    | ASTM D5185m >50 | <b>5</b>     | 2        | 2        |
| Tin      | ppm    | ASTM D5185m >15 | <b>&lt;1</b> | <1       | 6        |
| Antimony | ppm    | ASTM D5185m     | <b>---</b>   | 0        | 0        |
| Vanadium | ppm    | ASTM D5185m     | <b>0</b>     | 0        | 0        |
| Cadmium  | ppm    | ASTM D5185m     | <b>0</b>     | <1       | 0        |

## ADDITIVES

|            | method | limit/base      | current      | history1 | history2 |
|------------|--------|-----------------|--------------|----------|----------|
| Boron      | ppm    | ASTM D5185m     | <b>0</b>     | 4        | 4        |
| Barium     | ppm    | ASTM D5185m 556 | <b>625</b>   | 655      | 383      |
| Molybdenum | ppm    | ASTM D5185m     | <b>0</b>     | 0        | 0        |
| Manganese  | ppm    | ASTM D5185m     | <b>&lt;1</b> | <1       | 1        |
| Magnesium  | ppm    | ASTM D5185m     | <b>15</b>    | 13       | 0        |
| Calcium    | ppm    | ASTM D5185m 242 | <b>18</b>    | 13       | 2        |
| Phosphorus | ppm    | ASTM D5185m 0   | <b>&lt;1</b> | 4        | 3        |
| Zinc       | ppm    | ASTM D5185m 0   | <b>60</b>    | 30       | 1        |
| Sulfur     | ppm    | ASTM D5185m 306 | <b>351</b>   | 166      | 236      |

## CONTAMINANTS

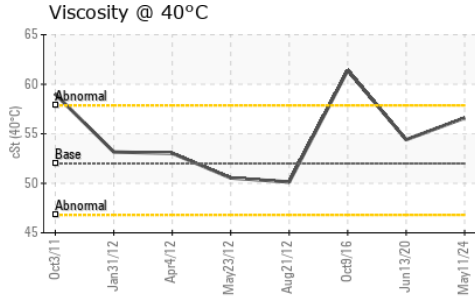
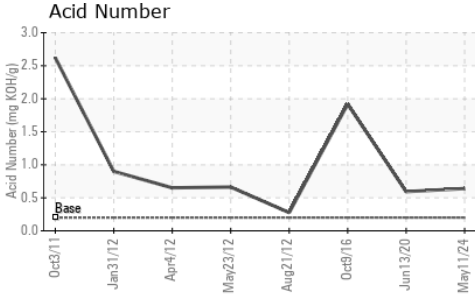
|           | method | limit/base      | current   | history1 | history2 |
|-----------|--------|-----------------|-----------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >25 | <b>2</b>  | 4        | 3        |
| Sodium    | ppm    | ASTM D5185m     | <b>38</b> | 25       | 35       |
| Potassium | ppm    | ASTM D5185m >20 | <b>3</b>  | 2        | 3        |

## FLUID DEGRADATION

|                  | method   | limit/base     | current     | history1 | history2 |
|------------------|----------|----------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 0.2 | <b>0.64</b> | 0.593    | ▲ 1.92   |



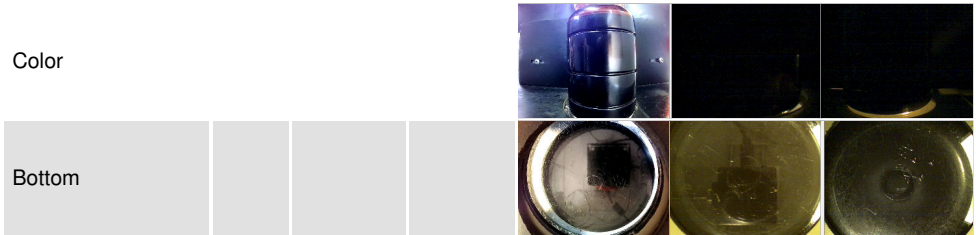
# OIL ANALYSIS REPORT



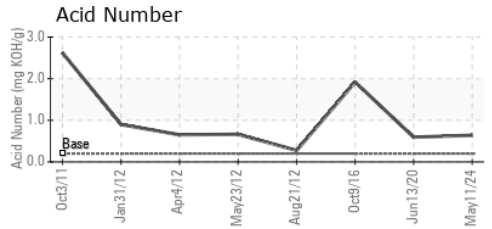
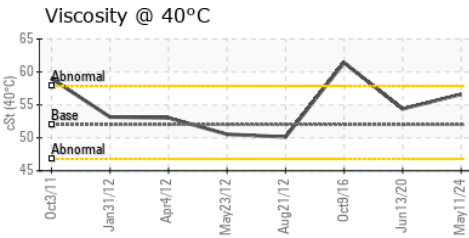
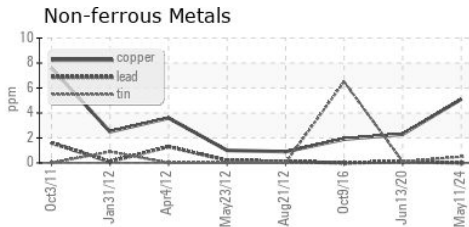
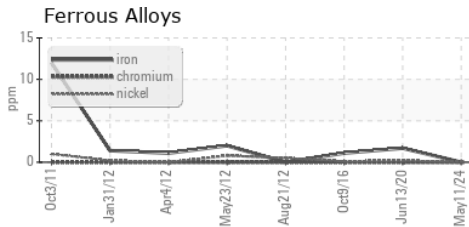
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | NONE     |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | NONE     |
| Precipitate      | scalar | *Visual    | NONE    | NONE     | NONE     |
| Silt             | scalar | *Visual    | NONE    | NONE     | NONE     |
| Debris           | scalar | *Visual    | NONE    | NONE     | 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 52 | 56.6    | 54.4     | 61.4     |

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



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0941865      **Received** : 15 May 2024  
**Lab Number** : 06180296      **Tested** : 16 May 2024  
**Unique Number** : 11031622      **Diagnosed** : 17 May 2024 - Sean Felton  
**Test Package** : IND 2

**ARMSTRONG SERVICE ASI**  
 100 HERO DR  
 AMSTERDAM, NY  
 US 12010  
 Contact: JEFF TOLEDO  
 jtoledo@armstronginternational.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)