



|                 |               |
|-----------------|---------------|
| WEAR            | <b>NORMAL</b> |
| CONTAMINATION   | <b>NORMAL</b> |
| FLUID CONDITION | <b>NORMAL</b> |

Machine Id  
**INGERSOLL RAND 22642**  
 Component  
**Compressor**  
 Fluid  
**INGERSOLL-RAND TECHTROL GOLD TL (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current       | History1 | History2 |
|----------------|-----|-------------|-----------|---------------|----------|----------|
| Sample Number  |     | Client Info |           | CCSI2014543   | ---      | ---      |
| Sample Date    |     | Client Info |           | 02 Jul 2024   | ---      | ---      |
| Machine Age    | hrs | Client Info |           | 6342          | ---      | ---      |
| Oil Age        | hrs | Client Info |           | 6342          | ---      | ---      |
| Filter Age     | hrs | Client Info |           | 0             | ---      | ---      |
| Oil Changed    |     | Client Info |           | N/A           | ---      | ---      |
| Filter Changed |     | Client Info |           | N/A           | ---      | ---      |
| Sample Status  |     |             |           | <b>NORMAL</b> | ---      | ---      |

**WEAR**

All component wear rates are normal.

|              |        |             |      |      |     |     |
|--------------|--------|-------------|------|------|-----|-----|
| Iron         | ppm    | ASTM D5185m | >50  | 0    | --- | --- |
| Chromium     | ppm    | ASTM D5185m | >10  | 0    | --- | --- |
| Nickel       | ppm    | ASTM D5185m |      | 0    | --- | --- |
| Titanium     | ppm    | ASTM D5185m |      | 0    | --- | --- |
| Silver       | ppm    | ASTM D5185m |      | 0    | --- | --- |
| Aluminum     | ppm    | ASTM D5185m | >25  | 0    | --- | --- |
| Lead         | ppm    | ASTM D5185m | >25  | 0    | --- | --- |
| Copper       | ppm    | ASTM D5185m | >50  | 0    | --- | --- |
| Tin          | ppm    | ASTM D5185m | >15  | 0    | --- | --- |
| Vanadium     | ppm    | ASTM D5185m |      | 0    | --- | --- |
| White Metal  | scalar | *Visual     | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual     | NONE | NONE | --- | --- |

**CONTAMINATION**

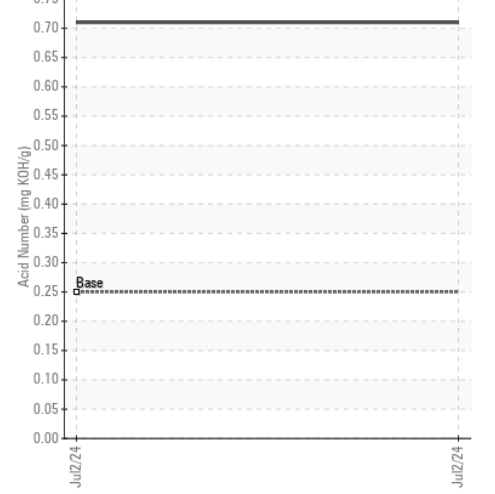
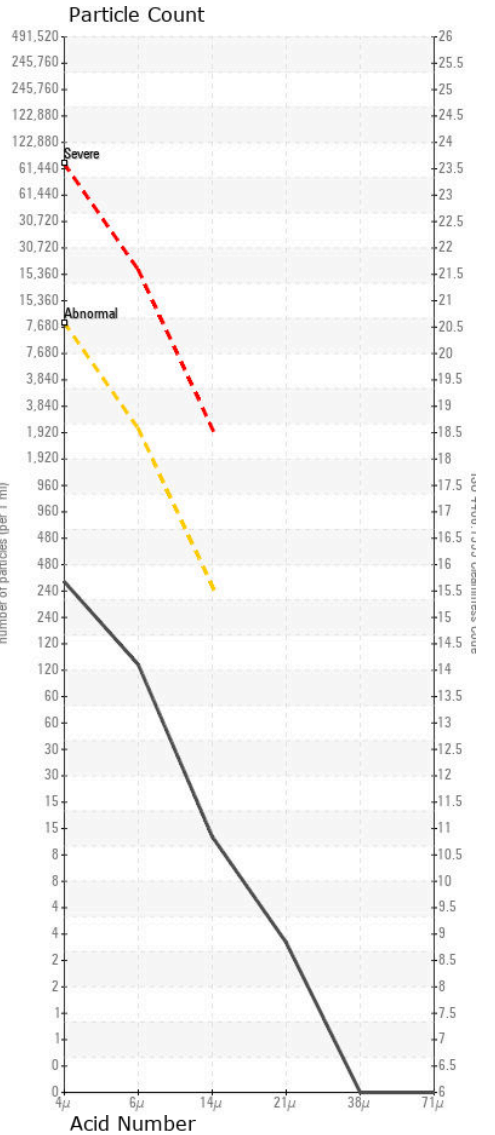
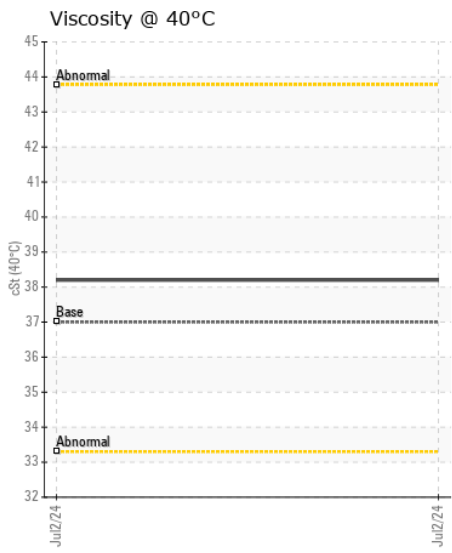
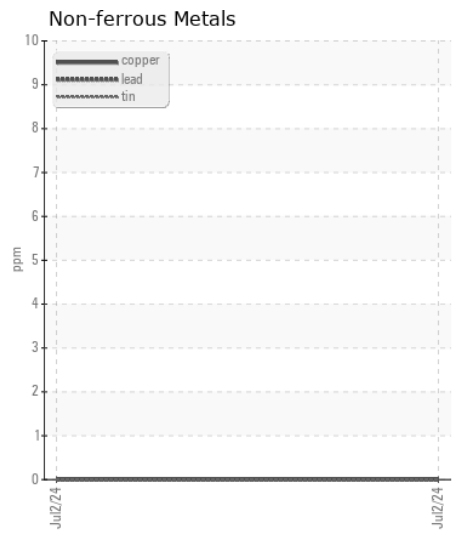
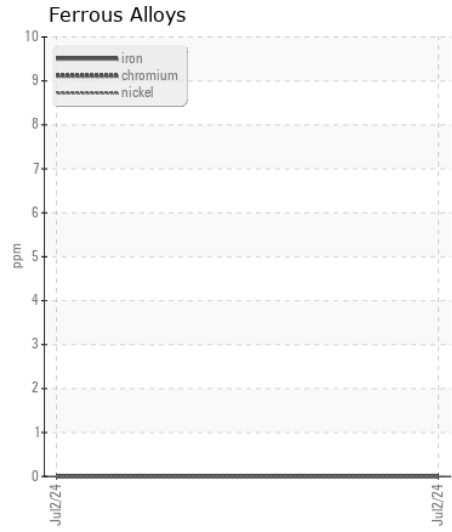
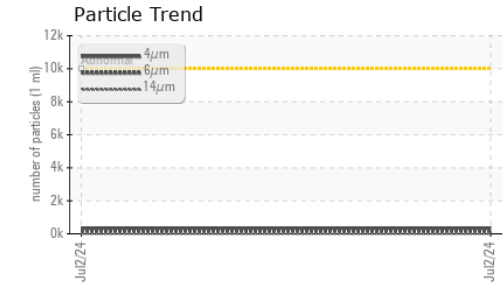
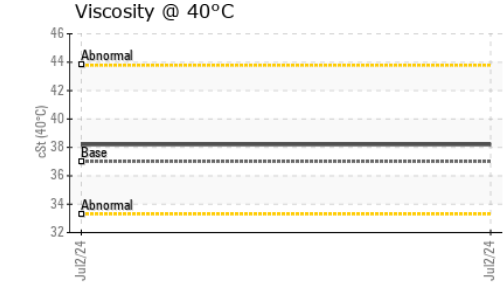
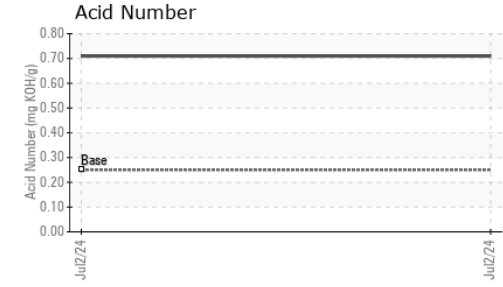
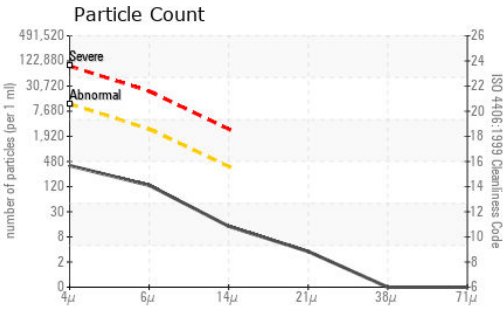
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

|                  |        |              |           |          |     |     |
|------------------|--------|--------------|-----------|----------|-----|-----|
| Silicon          | ppm    | ASTM D5185m  | >25       | 2        | --- | --- |
| Potassium        | ppm    | ASTM D5185m  | >20       | 0        | --- | --- |
| Water            |        | WC Method    | >0.1      | NEG      | --- | --- |
| Particles >4µm   |        | ASTM D7647   | >10000    | 337      | --- | --- |
| Particles >6µm   |        | ASTM D7647   | >2500     | 114      | --- | --- |
| Particles >14µm  |        | ASTM D7647   | >320      | 12       | --- | --- |
| Particles >21µm  |        | ASTM D7647   | >80       | 3        | --- | --- |
| Particles >38µm  |        | ASTM D7647   | >20       | 0        | --- | --- |
| Particles >71µm  |        | ASTM D7647   | >4        | 0        | --- | --- |
| Oil Cleanliness  |        | ISO 4406 (c) | >20/18/15 | 16/14/11 | --- | --- |
| Silt             | scalar | *Visual      | NONE      | NONE     | --- | --- |
| Debris           | scalar | *Visual      | NONE      | NONE     | --- | --- |
| Sand/Dirt        | scalar | *Visual      | NONE      | NONE     | --- | --- |
| Appearance       | scalar | *Visual      | NORML     | NORML    | --- | --- |
| Odor             | scalar | *Visual      | NORML     | NORML    | --- | --- |
| Emulsified Water | scalar | *Visual      | >0.1      | NEG      | --- | --- |

**FLUID CONDITION**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

|                  |          |             |      |      |     |     |
|------------------|----------|-------------|------|------|-----|-----|
| Sodium           | ppm      | ASTM D5185m |      | <1   | --- | --- |
| Boron            | ppm      | ASTM D5185m |      | 0    | --- | --- |
| Barium           | ppm      | ASTM D5185m |      | 0    | --- | --- |
| Molybdenum       | ppm      | ASTM D5185m |      | 0    | --- | --- |
| Manganese        | ppm      | ASTM D5185m |      | 0    | --- | --- |
| Magnesium        | ppm      | ASTM D5185m |      | 0    | --- | --- |
| Calcium          | ppm      | ASTM D5185m |      | 2    | --- | --- |
| Phosphorus       | ppm      | ASTM D5185m |      | 141  | --- | --- |
| Zinc             | ppm      | ASTM D5185m |      | 7    | --- | --- |
| Sulfur           | ppm      | ASTM D5185m |      | 26   | --- | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045  | 0.25 | 0.71 | --- | --- |
| Visc @ 40°C      | cSt      | ASTM D445   | 37   | 38.2 | --- | --- |



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : CCSI2014543 **Received** : 12 Jul 2024  
**Lab Number** : 06234832 **Tested** : 16 Jul 2024  
**Unique Number** : 11123666 **Diagnosed** : 17 Jul 2024 - Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

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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)