



**OIL ANALYSIS REPORT**

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

Machine Id  
**CB19275**  
 Component  
**Compressor**  
 Fluid  
**INGERSOLL-RAND TURBOBLEND 46 (55 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>CCSI2014454</b> | CCSI2014818 | CCSI2014838 |
| Sample Date    |     | Client Info |           | <b>14 May 2024</b> | 13 Feb 2024 | 31 Oct 2023 |
| Machine Age    | hrs | Client Info |           | <b>38591</b>       | 37571       | 36549       |
| Oil Age        | hrs | Client Info |           | <b>5198</b>        | 4177        | 3134        |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>Not Changd</b>  | Not Changd  | Not Changd  |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | N/A         | N/A         |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

**WEAR**

All component wear rates are normal.

|              |        |             |      |              |      |      |
|--------------|--------|-------------|------|--------------|------|------|
| 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>0</b>     | <1   | 0    |
| Titanium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| Silver       | ppm    | ASTM D5185m |      | <b>&lt;1</b> | 0    | 0    |
| Aluminum     | ppm    | ASTM D5185m | >25  | <b>0</b>     | <1   | <1   |
| Lead         | ppm    | ASTM D5185m | >25  | <b>&lt;1</b> | <1   | 0    |
| Copper       | ppm    | ASTM D5185m | >50  | <b>0</b>     | 0    | 0    |
| Tin          | ppm    | ASTM D5185m | >15  | <b>0</b>     | <1   | 0    |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |

**CONTAMINATION**

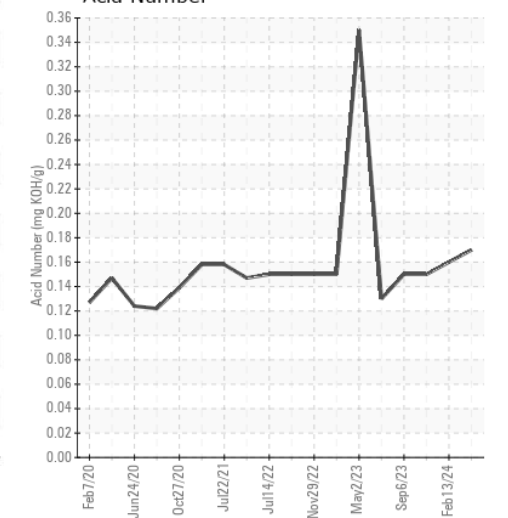
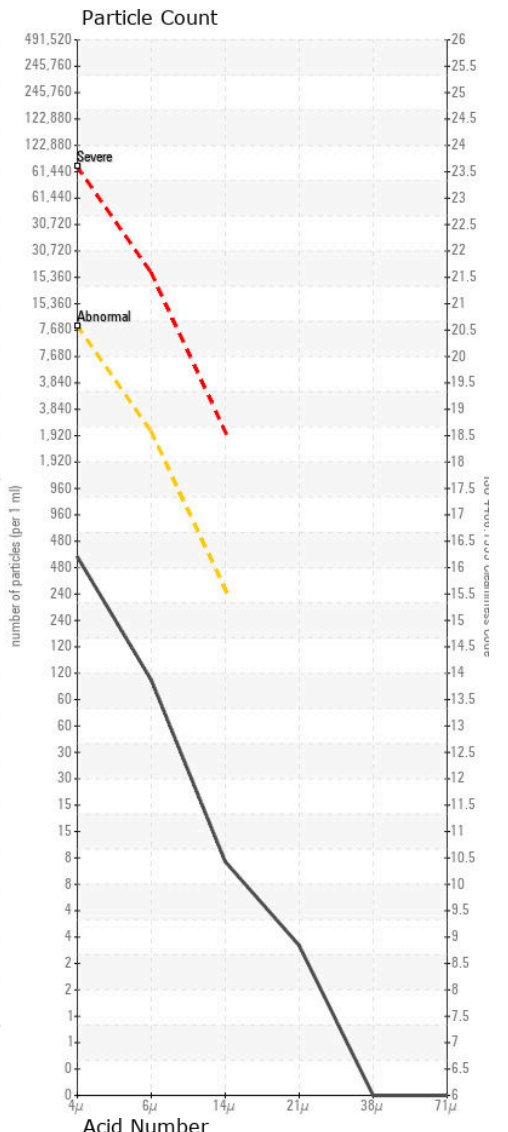
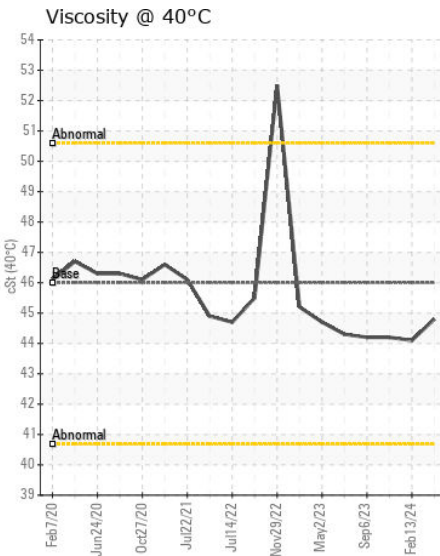
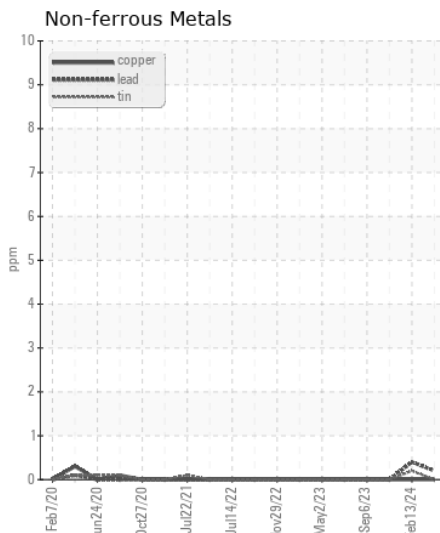
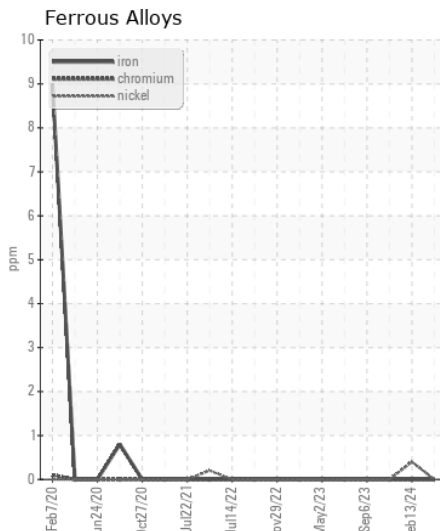
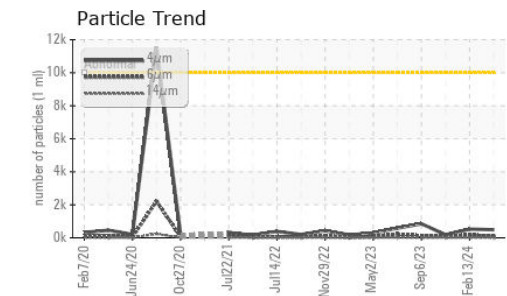
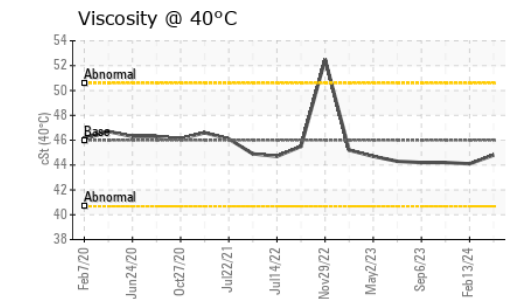
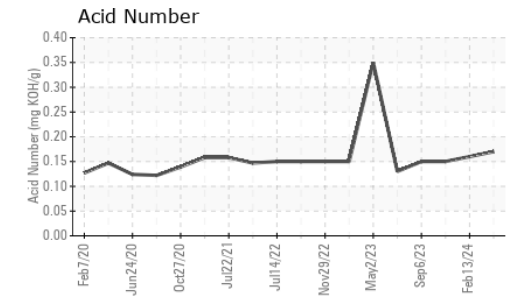
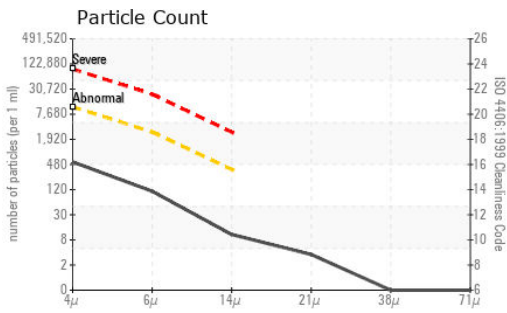
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

|                  |        |              |           |                 |          |          |
|------------------|--------|--------------|-----------|-----------------|----------|----------|
| Silicon          | ppm    | ASTM D5185m  | >25       | <b>2</b>        | 0        | 0        |
| Potassium        | ppm    | ASTM D5185m  | >20       | <b>&lt;1</b>    | 2        | <1       |
| Water            | %      | ASTM D6304   | >0.1      | <b>NEG</b>      | NEG      | NEG      |
| Particles >4µm   |        | ASTM D7647   | >10000    | <b>486</b>      | 529      | 189      |
| Particles >6µm   |        | ASTM D7647   | >2500     | <b>97</b>       | 174      | 84       |
| Particles >14µm  |        | ASTM D7647   | >320      | <b>9</b>        | 20       | 12       |
| Particles >21µm  |        | ASTM D7647   | >80       | <b>3</b>        | 4        | 4        |
| Particles >38µm  |        | ASTM D7647   | >20       | <b>0</b>        | 0        | 1        |
| Particles >71µm  |        | ASTM D7647   | >4        | <b>0</b>        | 0        | 0        |
| Oil Cleanliness  |        | ISO 4406 (c) | >20/18/15 | <b>16/14/10</b> | 16/15/11 | 15/14/11 |
| Silt             | scalar | *Visual      | NONE      | <b>NONE</b>     | NONE     | NONE     |
| Debris           | scalar | *Visual      | NONE      | <b>NONE</b>     | LIGHT    | 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      |

**FLUID CONDITION**

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

|                  |          |             |    |             |      |      |
|------------------|----------|-------------|----|-------------|------|------|
| Sodium           | ppm      | ASTM D5185m |    | <b>2</b>    | <1   | 0    |
| Boron            | ppm      | ASTM D5185m |    | <b>0</b>    | 0    | 0    |
| Barium           | ppm      | ASTM D5185m |    | <b>0</b>    | 0    | 7    |
| Molybdenum       | ppm      | ASTM D5185m |    | <b>0</b>    | 0    | 0    |
| Manganese        | ppm      | ASTM D5185m |    | <b>0</b>    | 0    | 0    |
| Magnesium        | ppm      | ASTM D5185m |    | <b>0</b>    | 2    | <1   |
| Calcium          | ppm      | ASTM D5185m |    | <b>0</b>    | 2    | <1   |
| Phosphorus       | ppm      | ASTM D5185m |    | <b>16</b>   | 13   | 29   |
| Zinc             | ppm      | ASTM D5185m |    | <b>0</b>    | 0    | 0    |
| Sulfur           | ppm      | ASTM D5185m |    | <b>9</b>    | 9    | 0    |
| Acid Number (AN) | mg KOH/g | ASTM D8045  |    | <b>0.17</b> | 0.16 | 0.15 |
| Visc @ 40°C      | cSt      | ASTM D445   | 46 | <b>44.8</b> | 44.1 | 44.2 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : CCSI2014454

Lab Number : 06189165

Unique Number : 11045917

Test Package : IND 2 ( Additional Tests: KF, PrtCount )

Received : 23 May 2024

Tested : 28 May 2024

Diagnosed : 28 May 2024 - Don Baldrige

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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)