



# OIL ANALYSIS REPORT

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

Machine Id  
**MRC-323**  
Component  
**Compressor**  
Fluid  
**TULCO LUBSOIL LPG WS 150 (--- GAL)**

## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

## WEAR

All component wear rates are normal.

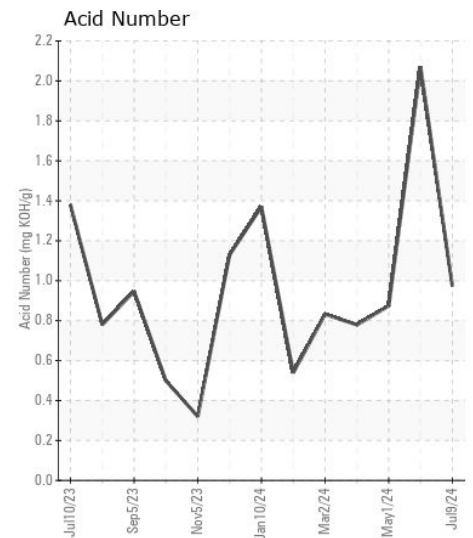
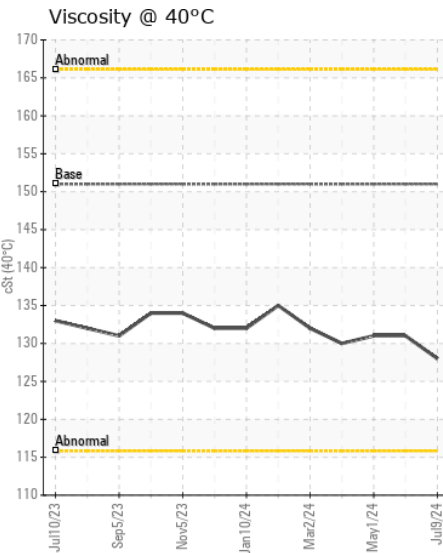
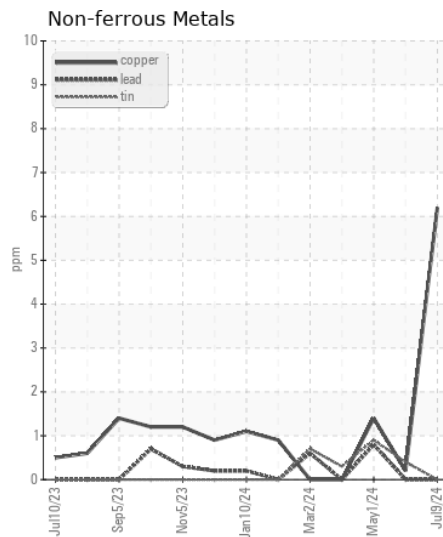
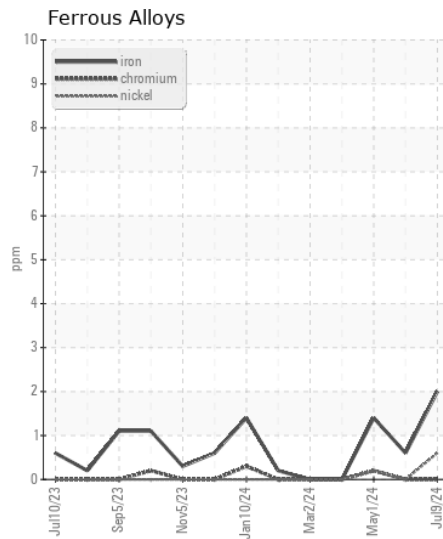
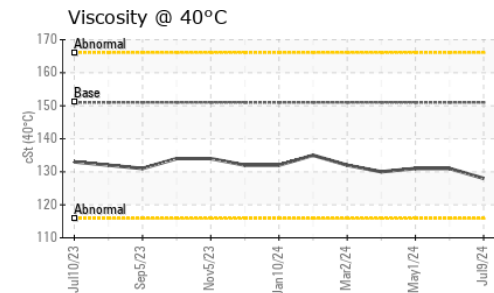
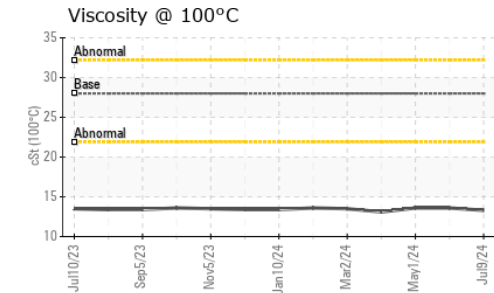
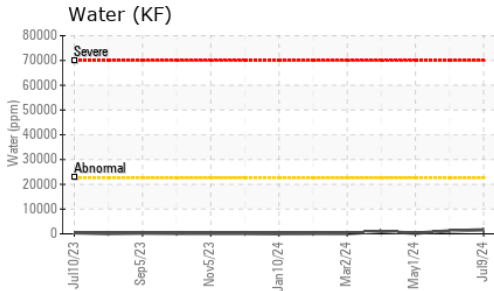
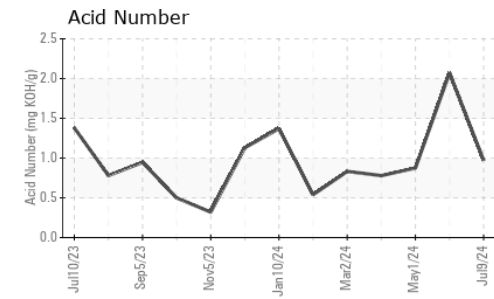
## CONTAMINATION

There is a moderate amount of visible silt present in the sample.

## FLUID CONDITION

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

| Test                 | UOM      | Method       | Limit/Abn | Current            | History1    | History2    |
|----------------------|----------|--------------|-----------|--------------------|-------------|-------------|
| Sample Number        |          | Client Info  |           | <b>TO60002939</b>  | TO60002702  | TO60001153  |
| Sample Date          |          | Client Info  |           | <b>09 Jul 2024</b> | 31 May 2024 | 01 May 2024 |
| Machine Age          | hrs      | Client Info  |           | <b>6795</b>        | 6091        | 5855        |
| Oil Age              | hrs      | Client Info  |           | <b>0</b>           | 0           | 0           |
| Filter Age           | hrs      | Client Info  |           | <b>0</b>           | 0           | 0           |
| Oil Changed          |          | Client Info  |           | <b>N/A</b>         | N/A         | N/A         |
| Filter Changed       |          | Client Info  |           | <b>N/A</b>         | N/A         | N/A         |
| Sample Status        |          |              |           | <b>ABNORMAL</b>    | ABNORMAL    | NORMAL      |
| Iron                 | ppm      | ASTM D5185m  | >50       | <b>2</b>           | <1          | 1           |
| Chromium             | ppm      | ASTM D5185m  | >10       | <b>0</b>           | 0           | <1          |
| Nickel               | ppm      | ASTM D5185m  |           | <b>&lt;1</b>       | 0           | <1          |
| Titanium             | ppm      | ASTM D5185m  |           | <b>&lt;1</b>       | 0           | <1          |
| Silver               | ppm      | ASTM D5185m  |           | <b>&lt;1</b>       | 0           | <1          |
| Aluminum             | ppm      | ASTM D5185m  | >25       | <b>2</b>           | 2           | 2           |
| Lead                 | ppm      | ASTM D5185m  | >25       | <b>0</b>           | 0           | <1          |
| Copper               | ppm      | ASTM D5185m  | >50       | <b>6</b>           | <1          | 1           |
| Tin                  | ppm      | ASTM D5185m  | >15       | <b>0</b>           | <1          | <1          |
| Vanadium             | ppm      | ASTM D5185m  |           | <b>0</b>           | 0           | <1          |
| White Metal          | scalar   | *Visual      | NONE      | <b>NONE</b>        | NONE        | NONE        |
| Yellow Metal         | scalar   | *Visual      | NONE      | <b>NONE</b>        | NONE        | NONE        |
| Silicon              | ppm      | ASTM D5185m  | >25       | <b>4</b>           | 8           | 4           |
| Potassium            | ppm      | ASTM D5185m  | >20       | <b>5</b>           | 5           | 4           |
| Water                | %        | ASTM D6304   | >2.26     | <b>0.162</b>       | 0.118       | 0.024       |
| ppm Water            | ppm      | ASTM D6304   | >22600    | <b>1620</b>        | 1180        | 240         |
| Particles >4µm       |          | ASTM D7647   | >10000    | <b>---</b>         | ---         | 7103        |
| Particles >6µm       |          | ASTM D7647   | >1300     | <b>---</b>         | ---         | 875         |
| Particles >14µm      |          | ASTM D7647   | >320      | <b>---</b>         | ---         | 16          |
| Particles >21µm      |          | ASTM D7647   | >80       | <b>---</b>         | ---         | 2           |
| Particles >38µm      |          | ASTM D7647   | >20       | <b>---</b>         | ---         | 0           |
| Particles >71µm      |          | ASTM D7647   | >4        | <b>---</b>         | ---         | 0           |
| Oil Cleanliness      |          | ISO 4406 (c) | >20/17/15 | <b>---</b>         | ---         | 20/17/11    |
| Silt                 | scalar   | *Visual      | NONE      | <b>▲ MODER</b>     | ▲ MODER     | NONE        |
| Debris               | scalar   | *Visual      | NONE      | <b>NONE</b>        | NONE        | 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      | >2.26     | <b>NEG</b>         | NEG         | NEG         |
| Sodium               | ppm      | ASTM D5185m  |           | <b>8</b>           | 6           | 4           |
| Boron                | ppm      | ASTM D5185m  | 0         | <b>27</b>          | 40          | 46          |
| Barium               | ppm      | ASTM D5185m  | 0         | <b>0</b>           | <1          | 0           |
| Molybdenum           | ppm      | ASTM D5185m  | 0         | <b>0</b>           | 0           | <1          |
| Manganese            | ppm      | ASTM D5185m  |           | <b>1</b>           | <1          | 0           |
| Magnesium            | ppm      | ASTM D5185m  | 0         | <b>7</b>           | 7           | 5           |
| Calcium              | ppm      | ASTM D5185m  | 0         | <b>1241</b>        | 1290        | 1275        |
| Phosphorus           | ppm      | ASTM D5185m  | 0         | <b>298</b>         | 292         | 339         |
| Zinc                 | ppm      | ASTM D5185m  | 0         | <b>318</b>         | 337         | 339         |
| Sulfur               | ppm      | ASTM D5185m  | 0         | <b>4272</b>        | 4371        | 4527        |
| Acid Number (AN)     | mg KOH/g | ASTM D8045   |           | <b>0.973</b>       | 2.07        | 0.874       |
| Visc @ 40°C          | cSt      | ASTM D445    | 151       | <b>128</b>         | 131         | 131         |
| Visc @ 100°C         | cSt      | ASTM D445    | 28        | <b>13.3</b>        | 13.6        | 13.6        |
| Viscosity Index (VI) | Scale    | ASTM D2270   | 224       | <b>97</b>          | 98          | 98          |



Certificate L2367

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

**Sample No.** : TO60002939

**Lab Number** : 06238452

**Unique Number** : 11127286

**Test Package** : MOB 2 ( Additional Tests: KF, KV100, PrtCount, VI )

**Received** : 16 Jul 2024

**Tested** : 18 Jul 2024

**Diagnosed** : 18 Jul 2024 - Doug Bogart

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)

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