



# OIL ANALYSIS REPORT

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

Machine Id  
**HOMOGENIZER**  
 Component  
**Hydraulic System**  
 Fluid  
**QUAKER CHEMICAL QUINTOLUBRIC 888-46 (1000 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM  | Method      | Limit/Abn | Current            | History1    | History2 |
|----------------|------|-------------|-----------|--------------------|-------------|----------|
| Sample Number  |      | Client Info |           | <b>WC0858888</b>   | WC0776099   | ---      |
| Sample Date    |      | Client Info |           | <b>09 May 2024</b> | 02 Feb 2023 | ---      |
| Machine Age    | mths | Client Info |           | <b>0</b>           | 0           | ---      |
| Oil Age        | mths | Client Info |           | <b>0</b>           | 0           | ---      |
| Filter Age     | mths | Client Info |           | <b>7</b>           | 4           | ---      |
| Oil Changed    |      | Client Info |           | <b>N/A</b>         | N/A         | ---      |
| Filter Changed |      | Client Info |           | <b>Changed</b>     | Changed     | ---      |
| Sample Status  |      |             |           | <b>NORMAL</b>      | ABNORMAL    | ---      |

## WEAR

All component wear rates are normal.

|              |        |               |      |              |      |     |
|--------------|--------|---------------|------|--------------|------|-----|
| Iron         | ppm    | ASTM D5185(m) | >20  | <b>2</b>     | 11   | --- |
| Chromium     | ppm    | ASTM D5185(m) | >20  | <b>10</b>    | ▲ 26 | --- |
| Nickel       | ppm    | ASTM D5185(m) | >20  | <b>0</b>     | 0    | --- |
| Titanium     | ppm    | ASTM D5185(m) |      | <b>0</b>     | 0    | --- |
| Silver       | ppm    | ASTM D5185(m) |      | <b>0</b>     | 0    | --- |
| Aluminum     | ppm    | ASTM D5185(m) | >20  | <b>0</b>     | <1   | --- |
| Lead         | ppm    | ASTM D5185(m) | >20  | <b>0</b>     | 1    | --- |
| Copper       | ppm    | ASTM D5185(m) | >20  | <b>&lt;1</b> | 5    | --- |
| Tin          | ppm    | ASTM D5185(m) | >20  | <b>239</b>   | 118  | --- |
| Vanadium     | ppm    | ASTM D5185(m) |      | <b>0</b>     | 0    | --- |
| White Metal  | scalar | Visual*       | NONE | <b>NONE</b>  | NONE | --- |
| Yellow Metal | scalar | Visual*       | NONE | <b>NONE</b>  | NONE | --- |

## CONTAMINATION

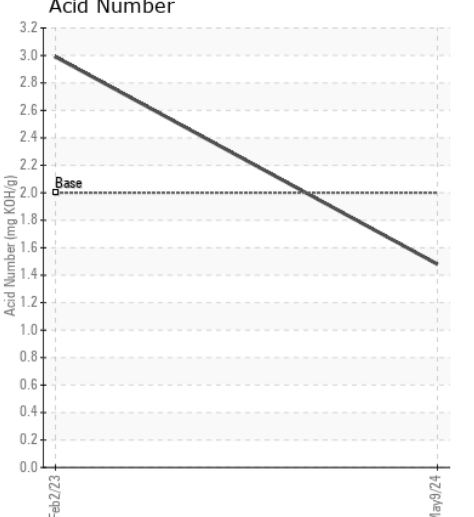
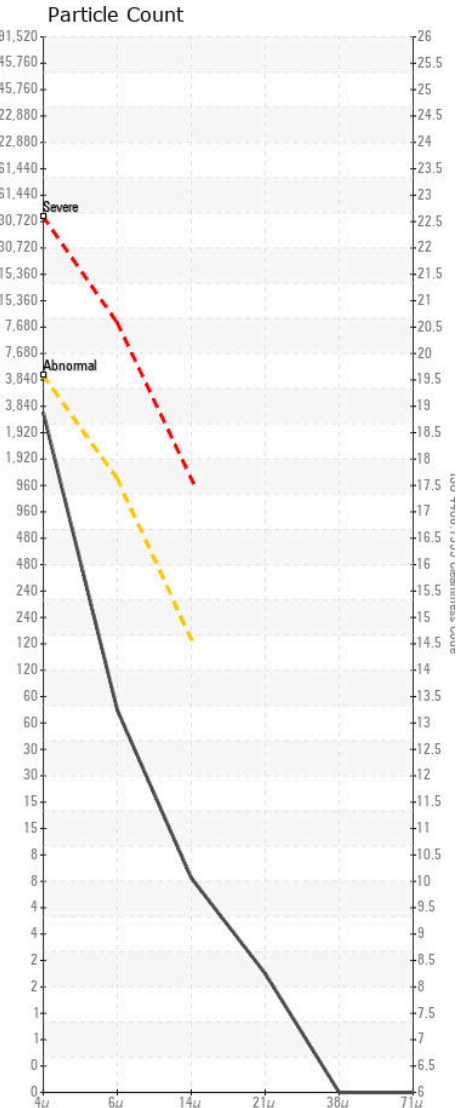
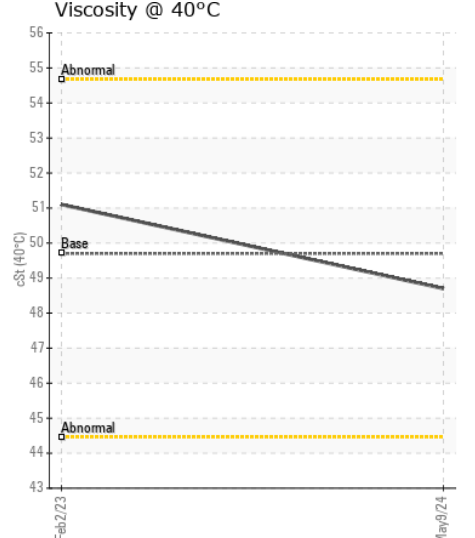
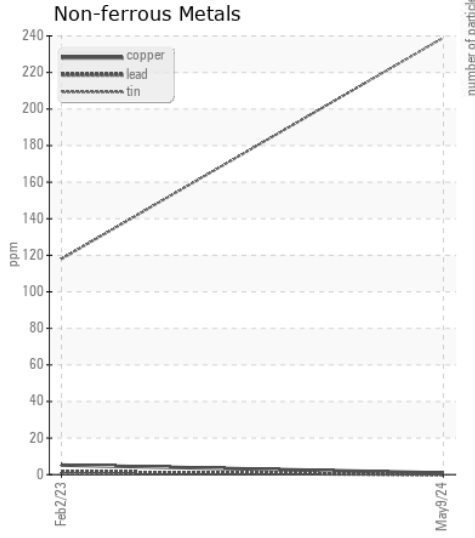
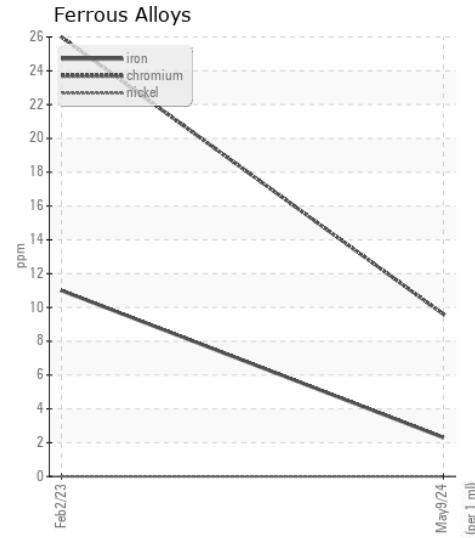
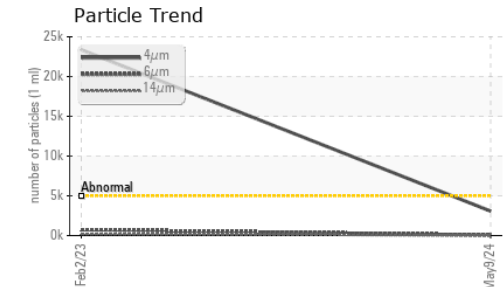
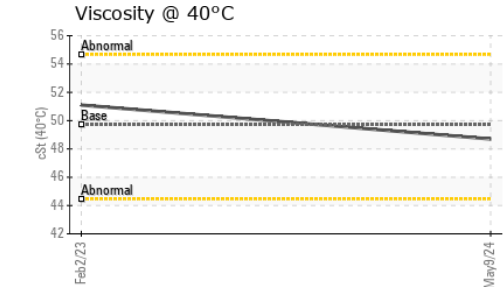
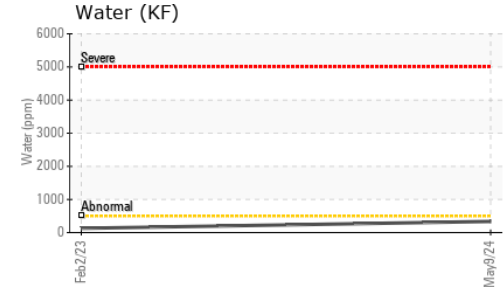
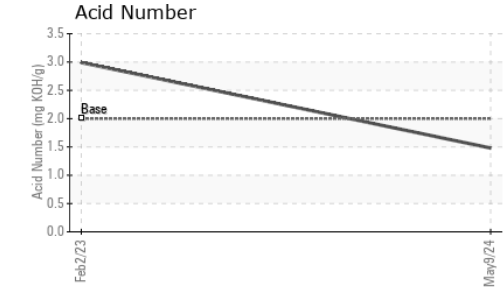
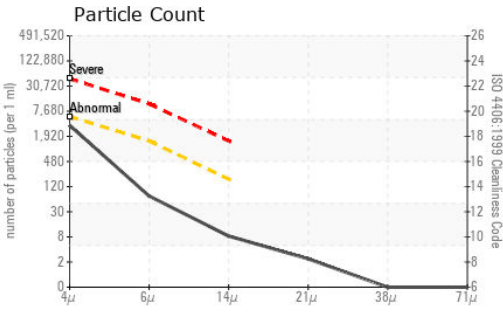
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

|                  |        |               |           |                 |            |     |
|------------------|--------|---------------|-----------|-----------------|------------|-----|
| Silicon          | ppm    | ASTM D5185(m) | >15       | <b>2</b>        | 4          | --- |
| Potassium        | ppm    | ASTM D5185(m) | >20       | <b>&lt;1</b>    | <1         | --- |
| Water            | %      | ASTM D6304*   | >0.05     | <b>0.033</b>    | 0.012      | --- |
| ppm Water        | ppm    | ASTM D6304*   | >500      | <b>337</b>      | 128.7      | --- |
| Particles >4µm   |        | ASTM D7647    | >5000     | <b>3078</b>     | ▲ 23374    | --- |
| Particles >6µm   |        | ASTM D7647    | >1300     | <b>63</b>       | 729        | --- |
| Particles >14µm  |        | ASTM D7647    | >160      | <b>7</b>        | ● 186      | --- |
| Particles >21µm  |        | ASTM D7647    | >40       | <b>2</b>        | ● 76       | --- |
| Particles >38µm  |        | ASTM D7647    | >10       | <b>0</b>        | 3          | --- |
| Particles >71µm  |        | ASTM D7647    | >3        | <b>0</b>        | 0          | --- |
| Oil Cleanliness  |        | ISO 4406 (c)  | >19/17/14 | <b>19/13/10</b> | ▲ 22/17/15 | --- |
| Silt             | scalar | Visual*       | NONE      | <b>NONE</b>     | NONE       | --- |
| Debris           | scalar | Visual*       | NONE      | <b>NONE</b>     | NONE       | --- |
| Sand/Dirt        | scalar | Visual*       | NONE      | <b>NONE</b>     | NONE       | --- |
| Appearance       | scalar | Visual*       | NORML     | <b>NORML</b>    | NORML      | --- |
| Odor             | scalar | Visual*       | NORML     | <b>NORML</b>    | NORML      | --- |
| Emulsified Water | scalar | Visual*       | >0.05     | <b>NEG</b>      | NEG        | --- |

## FLUID CONDITION

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

|                  |          |               |      |              |      |     |
|------------------|----------|---------------|------|--------------|------|-----|
| Sodium           | ppm      | ASTM D5185(m) |      | <b>3</b>     | 4    | --- |
| Boron            | ppm      | ASTM D5185(m) |      | <b>2</b>     | <1   | --- |
| Barium           | ppm      | ASTM D5185(m) |      | <b>&lt;1</b> | 0    | --- |
| Molybdenum       | ppm      | ASTM D5185(m) |      | <b>0</b>     | 0    | --- |
| Manganese        | ppm      | ASTM D5185(m) |      | <b>0</b>     | <1   | --- |
| Magnesium        | ppm      | ASTM D5185(m) |      | <b>&lt;1</b> | <1   | --- |
| Calcium          | ppm      | ASTM D5185(m) |      | <b>2</b>     | 12   | --- |
| Phosphorus       | ppm      | ASTM D5185(m) |      | <b>106</b>   | 166  | --- |
| Zinc             | ppm      | ASTM D5185(m) |      | <b>17</b>    | 99   | --- |
| Sulfur           | ppm      | ASTM D5185(m) |      | <b>465</b>   | 553  | --- |
| Acid Number (AN) | mg KOH/g | ASTM D974*    | 2.0  | <b>1.48</b>  | 2.99 | --- |
| Visc @ 40°C      | cSt      | ASTM D7279(m) | 49.7 | <b>48.7</b>  | 51.1 | --- |



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0858888 **Received** : 14 May 2024  
**Lab Number** : 02635277 **Tested** : 15 May 2024  
**Unique Number** : 5776430 **Diagnosed** : 15 May 2024 - Wes Davis  
**Test Package** : IND 2 ( Additional Tests: KF )

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To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.