



# OIL ANALYSIS REPORT

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



Area  
**CONGEBEC MISSISSAUGA**  
Machine Id  
**FRICK COMP #2 (S/N 10241G76682680)**  
Component  
**Screw Compressor**  
Fluid  
**FRICK COMPRESSOR OIL #3 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number  |     | Client Info |           | <b>WC0939811</b>   | ---      | ---      |
| Sample Date    |     | Client Info |           | <b>31 May 2024</b> | ---      | ---      |
| Machine Age    | hrs | Client Info |           | <b>36095</b>       | ---      | ---      |
| Oil Age        | hrs | Client Info |           | <b>3065</b>        | ---      | ---      |
| Filter Age     | hrs | Client Info |           | <b>3065</b>        | ---      | ---      |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | ---      | ---      |
| Filter Changed |     | Client Info |           | <b>Changed</b>     | ---      | ---      |
| Sample Status  |     |             |           | <b>NORMAL</b>      | ---      | ---      |

## WEAR

All component wear rates are normal.

|              |        |               |      |             |     |     |
|--------------|--------|---------------|------|-------------|-----|-----|
| PQ           |        | ASTM D8184*   |      | <b>0</b>    | --- | --- |
| Iron         | ppm    | ASTM D5185(m) | >60  | <b>0</b>    | --- | --- |
| Chromium     | ppm    | ASTM D5185(m) | >4   | <b>0</b>    | --- | --- |
| Nickel       | ppm    | ASTM D5185(m) |      | <b>0</b>    | --- | --- |
| Titanium     | ppm    | ASTM D5185(m) |      | <b>0</b>    | --- | --- |
| Silver       | ppm    | ASTM D5185(m) |      | <b>0</b>    | --- | --- |
| Aluminum     | ppm    | ASTM D5185(m) | >5   | <b>0</b>    | --- | --- |
| Lead         | ppm    | ASTM D5185(m) | >10  | <b>0</b>    | --- | --- |
| Copper       | ppm    | ASTM D5185(m) | >30  | <b>0</b>    | --- | --- |
| Tin          | ppm    | ASTM D5185(m) | >15  | <b>0</b>    | --- | --- |
| Vanadium     | ppm    | ASTM D5185(m) |      | <b>0</b>    | --- | --- |
| White Metal  | scalar | Visual*       | NONE | <b>NONE</b> | --- | --- |
| Yellow Metal | scalar | Visual*       | NONE | <b>NONE</b> | --- | --- |

## CONTAMINATION

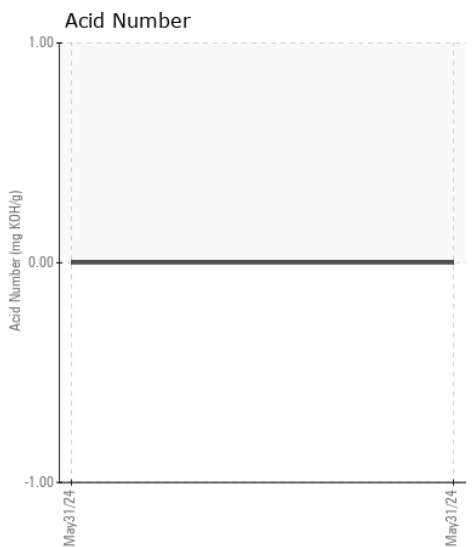
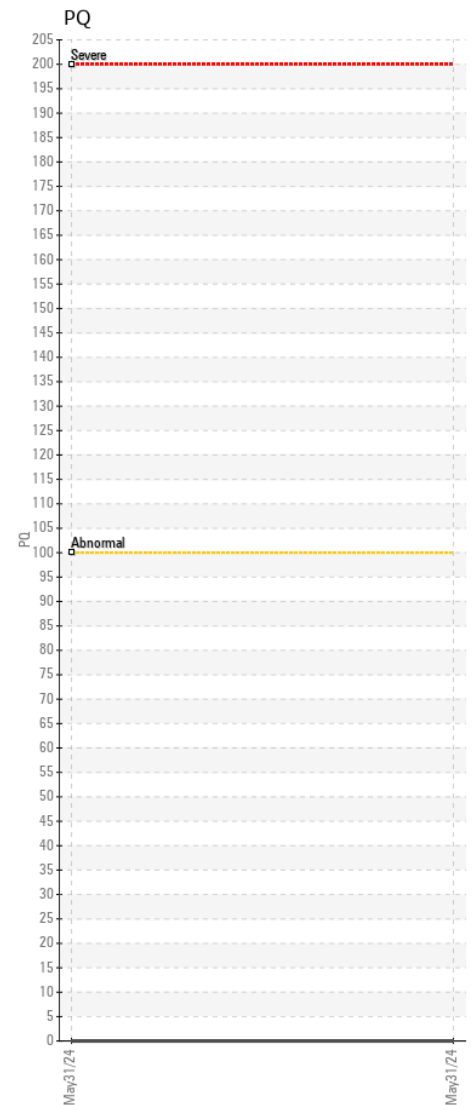
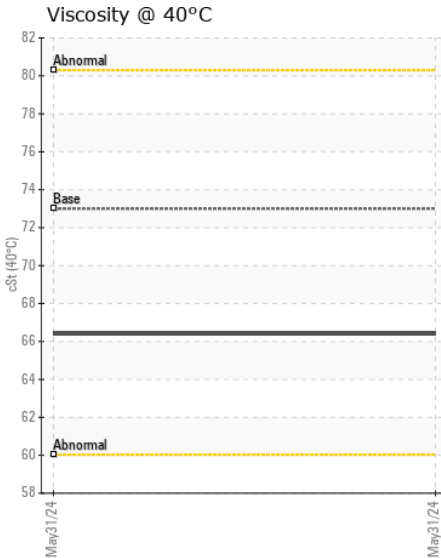
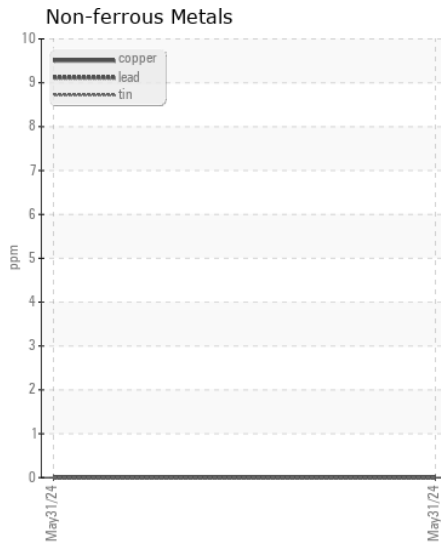
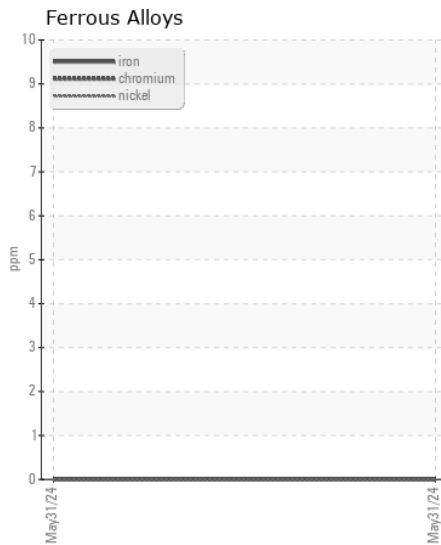
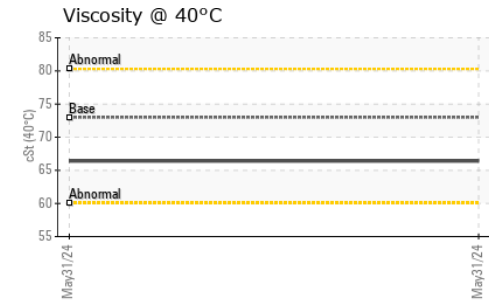
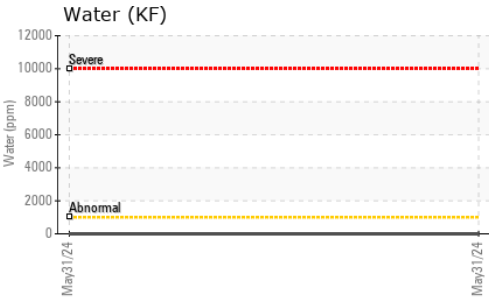
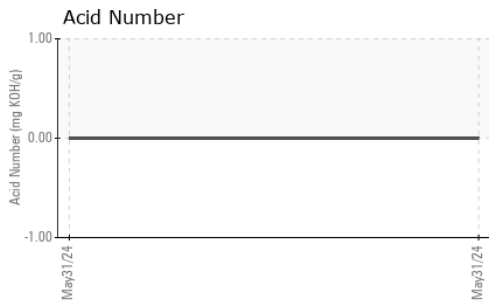
The water content is negligible. There is no indication of any contamination in the oil.

|                  |        |               |       |              |     |     |
|------------------|--------|---------------|-------|--------------|-----|-----|
| Silicon          | ppm    | ASTM D5185(m) | >50   | <b>0</b>     | --- | --- |
| Potassium        | ppm    | ASTM D5185(m) | >20   | <b>&lt;1</b> | --- | --- |
| Water            | %      | ASTM D6304*   | >0.1  | <b>0.00</b>  | --- | --- |
| ppm Water        | ppm    | ASTM D6304*   | >1000 | <b>0</b>     | --- | --- |
| Silt             | scalar | Visual*       | NONE  | <b>NONE</b>  | --- | --- |
| Debris           | scalar | Visual*       | NONE  | <b>NONE</b>  | --- | --- |
| Sand/Dirt        | scalar | Visual*       | NONE  | <b>VLITE</b> | --- | --- |
| Appearance       | scalar | Visual*       | NORML | <b>NORML</b> | --- | --- |
| Odor             | scalar | Visual*       | NORML | <b>NORML</b> | --- | --- |
| Emulsified Water | scalar | Visual*       | >0.1  | <b>NEG</b>   | --- | --- |

## 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>&lt;1</b> | --- | --- |
| Boron            | ppm      | ASTM D5185(m) |    | <b>0</b>     | --- | --- |
| Barium           | ppm      | ASTM D5185(m) |    | <b>3</b>     | --- | --- |
| Molybdenum       | ppm      | ASTM D5185(m) |    | <b>0</b>     | --- | --- |
| Manganese        | ppm      | ASTM D5185(m) |    | <b>0</b>     | --- | --- |
| Magnesium        | ppm      | ASTM D5185(m) |    | <b>0</b>     | --- | --- |
| Calcium          | ppm      | ASTM D5185(m) |    | <b>0</b>     | --- | --- |
| Phosphorus       | ppm      | ASTM D5185(m) |    | <b>0</b>     | --- | --- |
| Zinc             | ppm      | ASTM D5185(m) |    | <b>1</b>     | --- | --- |
| Sulfur           | ppm      | ASTM D5185(m) |    | <b>13</b>    | --- | --- |
| Acid Number (AN) | mg KOH/g | ASTM D974*    |    | <b>0.00</b>  | --- | --- |
| Visc @ 40°C      | cSt      | ASTM D7279(m) | 73 | <b>66.4</b>  | --- | --- |



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0939811 **Received** : 11 Jun 2024  
**Lab Number** : 02641151 **Tested** : 12 Jun 2024  
**Unique Number** : 5798690 **Diagnosed** : 12 Jun 2024 - Wes Davis  
**Test Package** : IND 2 ( Additional Tests: KF, TAN Man )

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.

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