



# OIL ANALYSIS REPORT

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

Machine Id  
**093106**  
Component  
**Left Final Drive**  
Fluid  
**SAE 80W90 (2 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number  |     | Client Info |           | <b>WC105092</b>    | ---      | ---      |
| Sample Date    |     | Client Info |           | <b>12 Jan 2024</b> | ---      | ---      |
| Machine Age    | hrs | Client Info |           | <b>3093</b>        | ---      | ---      |
| Oil Age        | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Oil Changed    |     | Client Info |           | <b>Not Changed</b> | ---      | ---      |
| Filter Changed |     | Client Info |           | <b>Not Changed</b> | ---      | ---      |
| Sample Status  |     |             |           | <b>NORMAL</b>      | ---      | ---      |

## WEAR

All component wear rates are normal.

|              |        |               |      |              |     |     |
|--------------|--------|---------------|------|--------------|-----|-----|
| PQ           |        | ASTM D8184*   |      | <b>645</b>   | --- | --- |
| Iron         | ppm    | ASTM D5185(m) | >500 | <b>560</b>   | --- | --- |
| Chromium     | ppm    | ASTM D5185(m) | >10  | <b>6</b>     | --- | --- |
| Nickel       | ppm    | ASTM D5185(m) | >10  | <b>2</b>     | --- | --- |
| Titanium     | ppm    | ASTM D5185(m) |      | <b>0</b>     | --- | --- |
| Silver       | ppm    | ASTM D5185(m) |      | <b>0</b>     | --- | --- |
| Aluminum     | ppm    | ASTM D5185(m) | >25  | <b>14</b>    | --- | --- |
| Lead         | ppm    | ASTM D5185(m) | >25  | <b>&lt;1</b> | --- | --- |
| Copper       | ppm    | ASTM D5185(m) | >50  | <b>4</b>     | --- | --- |
| Tin          | ppm    | ASTM D5185(m) | >10  | <b>0</b>     | --- | --- |
| Vanadium     | ppm    | ASTM D5185(m) |      | <b>0</b>     | --- | --- |
| White Metal  | scalar | Visual*       | NONE | <b>LIGHT</b> | --- | --- |
| Yellow Metal | scalar | Visual*       | NONE | <b>NONE</b>  | --- | --- |

## CONTAMINATION

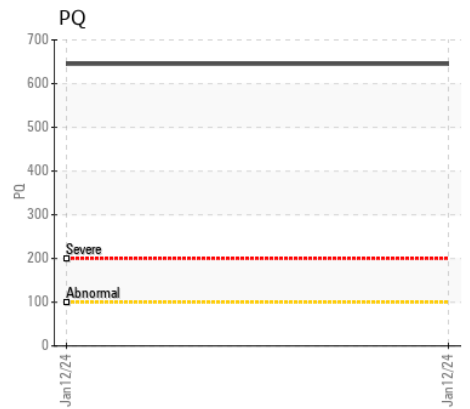
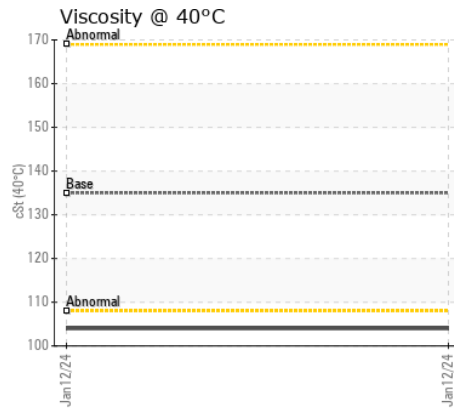
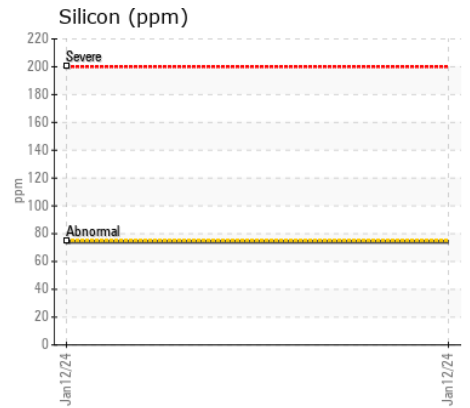
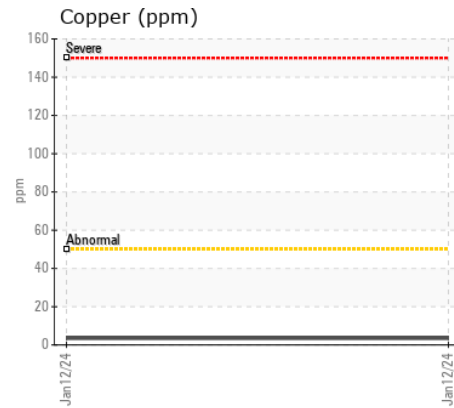
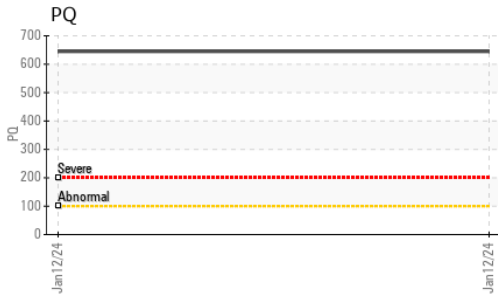
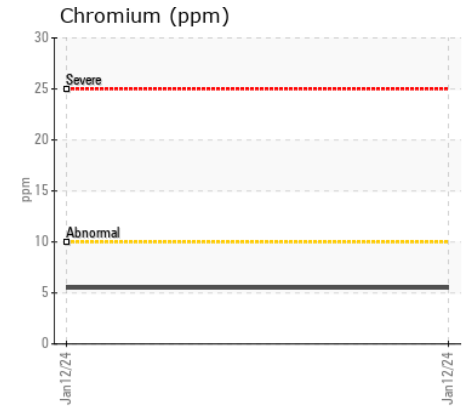
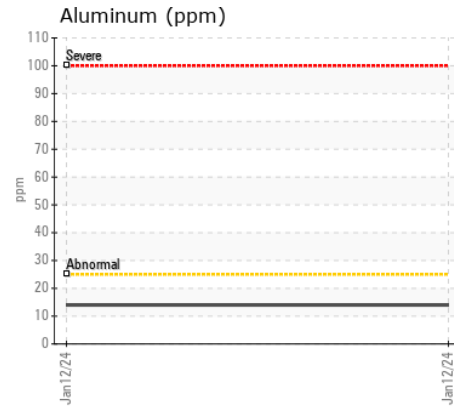
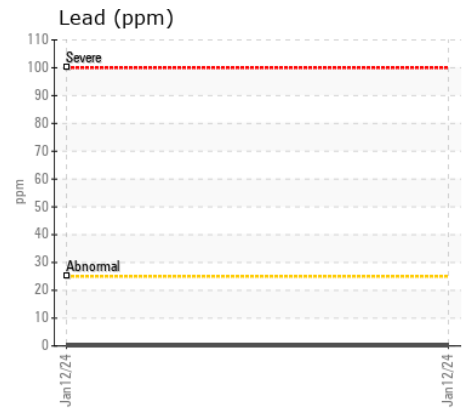
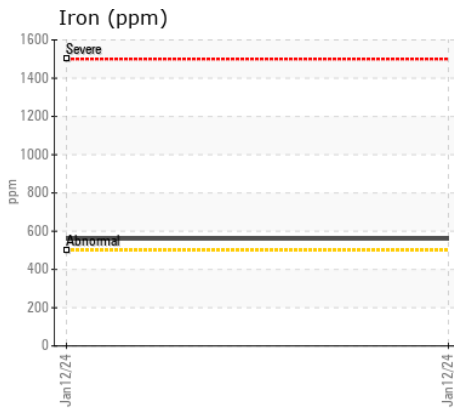
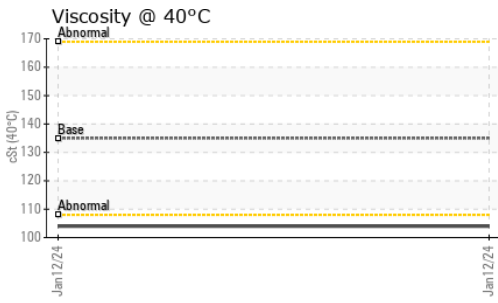
There is no indication of any contamination in the oil.

|                  |        |               |       |              |     |     |
|------------------|--------|---------------|-------|--------------|-----|-----|
| Silicon          | ppm    | ASTM D5185(m) | >75   | <b>74</b>    | --- | --- |
| Potassium        | ppm    | ASTM D5185(m) | >20   | <b>2</b>     | --- | --- |
| Water            |        | WC Method     | >0.2  | <b>NEG</b>   | --- | --- |
| Silt             | scalar | Visual*       | NONE  | <b>NONE</b>  | --- | --- |
| Debris           | scalar | Visual*       | NONE  | <b>NONE</b>  | --- | --- |
| Sand/Dirt        | scalar | Visual*       | NONE  | <b>NONE</b>  | --- | --- |
| Appearance       | scalar | Visual*       | NORML | <b>NORML</b> | --- | --- |
| Odor             | scalar | Visual*       | NORML | <b>NORML</b> | --- | --- |
| Emulsified Water | scalar | Visual*       | >0.2  | <b>NEG</b>   | --- | --- |

## FLUID CONDITION

Viscosity of sample indicates oil is within SAE 75W90 range, advise investigate. The condition of the oil is acceptable for the time in service.

|             |     |               |       |              |     |     |
|-------------|-----|---------------|-------|--------------|-----|-----|
| Sodium      | ppm | ASTM D5185(m) | >50   | <b>5</b>     | --- | --- |
| Boron       | ppm | ASTM D5185(m) | 200   | <b>20</b>    | --- | --- |
| Barium      | ppm | ASTM D5185(m) | 0     | <b>2</b>     | --- | --- |
| Molybdenum  | ppm | ASTM D5185(m) | 0     | <b>&lt;1</b> | --- | --- |
| Manganese   | ppm | ASTM D5185(m) |       | <b>5</b>     | --- | --- |
| Magnesium   | ppm | ASTM D5185(m) | 0     | <b>16</b>    | --- | --- |
| Calcium     | ppm | ASTM D5185(m) | 20    | <b>107</b>   | --- | --- |
| Phosphorus  | ppm | ASTM D5185(m) | 1000  | <b>582</b>   | --- | --- |
| Zinc        | ppm | ASTM D5185(m) | 20    | <b>135</b>   | --- | --- |
| Sulfur      | ppm | ASTM D5185(m) | 22000 | <b>12735</b> | --- | --- |
| Visc @ 40°C | cSt | ASTM D7279(m) | 135   | <b>104</b>   | --- | --- |



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC105092 **Received** : 16 Jan 2024  
**Lab Number** : 02609051 **Diagnosed** : 17 Jan 2024  
**Unique Number** : 5710137 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: PQ )

**C.G. EQUIPMENT**  
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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.