



# OIL ANALYSIS REPORT

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

Area  
**[332256]**  
 Machine Id  
**PM7965**  
 Component  
**Diesel Engine**  
 Fluid  
**{not provided} (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

| Test           | UOM | Method      | Limit/Abn | Current            | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number  |     | Client Info |           | <b>CU0023046</b>   | ---      | ---      |
| Sample Date    |     | Client Info |           | <b>16 Feb 2024</b> | ---      | ---      |
| Machine Age    | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Oil Age        | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Oil Changed    |     | Client Info |           | <b>N/A</b>         | ---      | ---      |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | ---      | ---      |
| Sample Status  |     |             |           | <b>NORMAL</b>      | ---      | ---      |

## WEAR

All component wear rates are normal.

|              |        |               |      |              |     |     |
|--------------|--------|---------------|------|--------------|-----|-----|
| Iron         | ppm    | ASTM D5185(m) | >100 | <b>2</b>     | --- | --- |
| Chromium     | ppm    | ASTM D5185(m) | >20  | <b>0</b>     | --- | --- |
| Nickel       | ppm    | ASTM D5185(m) | >4   | <b>0</b>     | --- | --- |
| Titanium     | ppm    | ASTM D5185(m) |      | <b>0</b>     | --- | --- |
| Silver       | ppm    | ASTM D5185(m) | >3   | <b>&lt;1</b> | --- | --- |
| Aluminum     | ppm    | ASTM D5185(m) | >20  | <b>1</b>     | --- | --- |
| Lead         | ppm    | ASTM D5185(m) | >40  | <b>&lt;1</b> | --- | --- |
| Copper       | ppm    | ASTM D5185(m) | >330 | <b>2</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

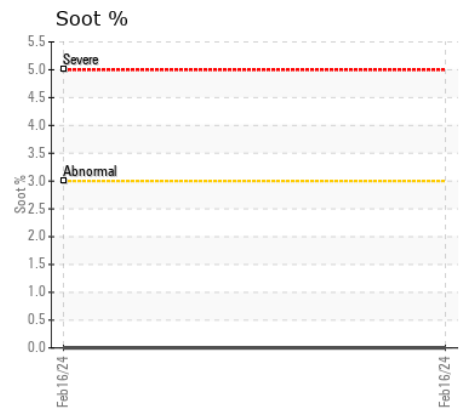
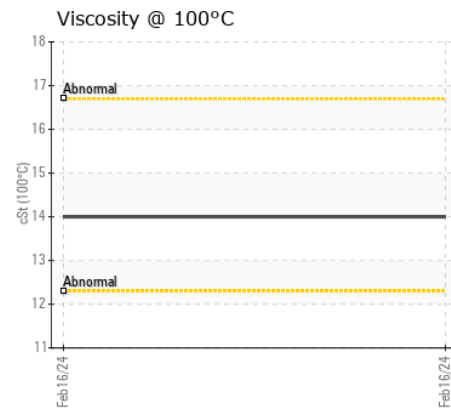
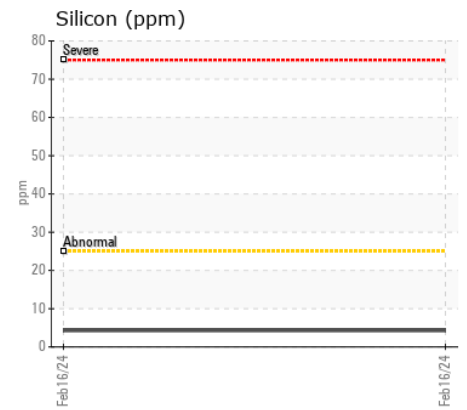
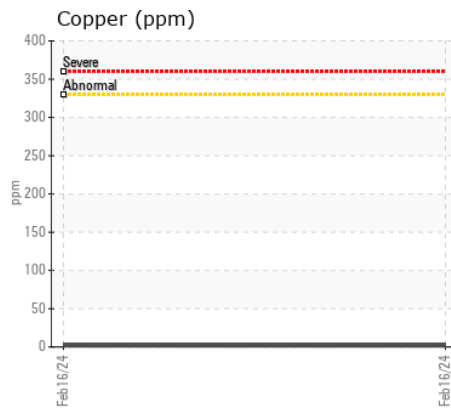
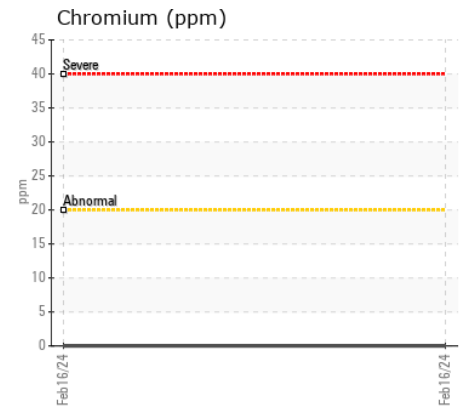
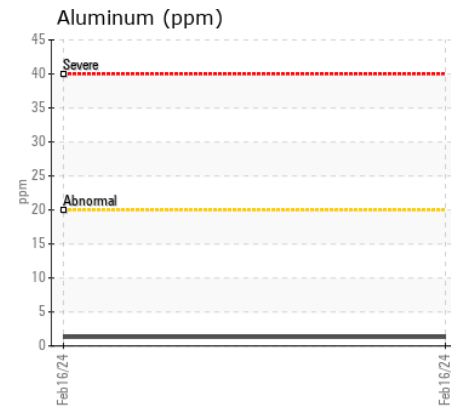
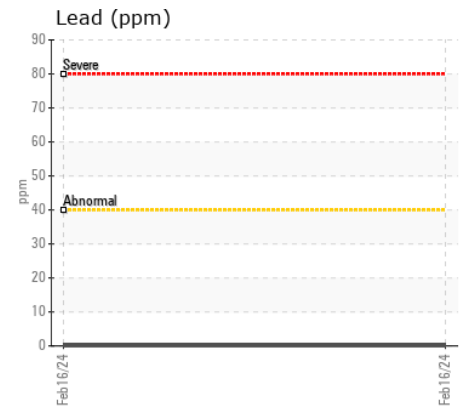
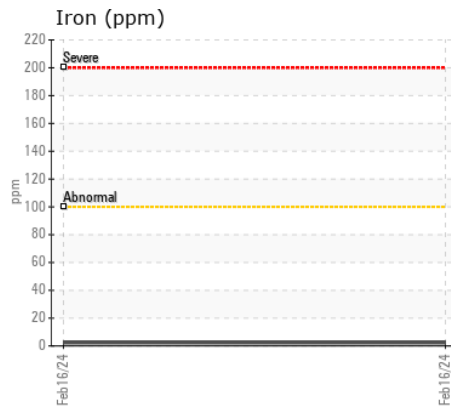
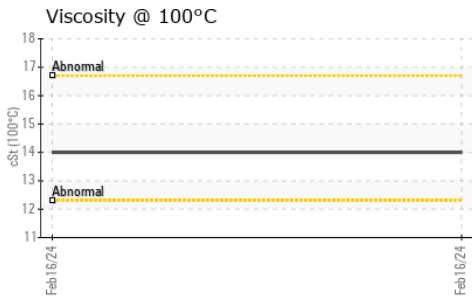
There is no indication of any contamination in the oil.

|                  |          |               |       |                |     |     |
|------------------|----------|---------------|-------|----------------|-----|-----|
| Silicon          | ppm      | ASTM D5185(m) | >25   | <b>4</b>       | --- | --- |
| Potassium        | ppm      | ASTM D5185(m) | >20   | <b>&lt;1</b>   | --- | --- |
| Fuel             |          | WC Method     | >5    | <b>&lt;1.0</b> | --- | --- |
| Water            |          | WC Method     | >0.2  | <b>NEG</b>     | --- | --- |
| Glycol           |          | WC Method     |       | <b>NEG</b>     | --- | --- |
| Soot %           | %        | ASTM D7844*   | >3    | <b>0</b>       | --- | --- |
| Nitration        | Abs/cm   | ASTM D7624*   | >20   | <b>6.8</b>     | --- | --- |
| Sulfation        | Abs/.1mm | ASTM D7415*   | >30   | <b>19.9</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*       | >0.2  | <b>NEG</b>     | --- | --- |

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

|              |          |               |     |             |     |     |
|--------------|----------|---------------|-----|-------------|-----|-----|
| Sodium       | ppm      | ASTM D5185(m) |     | <b>2</b>    | --- | --- |
| Boron        | ppm      | ASTM D5185(m) |     | <b>40</b>   | --- | --- |
| Barium       | ppm      | ASTM D5185(m) |     | <b>0</b>    | --- | --- |
| Molybdenum   | ppm      | ASTM D5185(m) |     | <b>45</b>   | --- | --- |
| Manganese    | ppm      | ASTM D5185(m) |     | <b>0</b>    | --- | --- |
| Magnesium    | ppm      | ASTM D5185(m) |     | <b>767</b>  | --- | --- |
| Calcium      | ppm      | ASTM D5185(m) |     | <b>1195</b> | --- | --- |
| Phosphorus   | ppm      | ASTM D5185(m) |     | <b>728</b>  | --- | --- |
| Zinc         | ppm      | ASTM D5185(m) |     | <b>808</b>  | --- | --- |
| Sulfur       | ppm      | ASTM D5185(m) |     | <b>2077</b> | --- | --- |
| Oxidation    | Abs/.1mm | ASTM D7414*   | >25 | <b>17.2</b> | --- | --- |
| Visc @ 100°C | cSt      | ASTM D7279(m) |     | <b>14.0</b> | --- | --- |



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : CU0023046 **Received** : 21 Feb 2024  
**Lab Number** : 02616905 **Tested** : 21 Feb 2024  
**Unique Number** : 5734015 **Diagnosed** : 21 Feb 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Visual )

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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