**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL NORMAL NORMAL** 

Machine Id BTV04

Front Differential

| Sample Number   Client Info   WC0925785   Client Info   Sample Date   Client Info   Changed    | GEAR OIL SAE 80W140 ( GAL)  |                  |        |               |           |             |          |          |
|--|---|------------------|--------|---------------|-----------|-------------|----------|----------|
| Sample Date   Client Info   14 Apr 2024  | RECOMMENDATION  | Test             | UOM    | Method        | Limit/Abn | Current     | History1 | History2 |
| Sample Date  | Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W140. Please confirm.  Please specify the component make and model with your next sample. | Sample Number    |        | Client Info   |           | WC0925785   |          |          |
| Presence specify the component make and model with your next sample,   Oil Age   hrs   Client Info   O   Changed   Client Info   Changed   Changed   Client Info   Changed   C |   | Sample Date      |        | Client Info   |           | 14 Apr 2024 |          |          |
| Col Age   hrs   Client Info   00       Filter Age   hrs   Client Info   Changed       Oil Changed   Client Info   Changed       Sample Status   Solution   Solutio             |   | Machine Age      | hrs    | Client Info   |           | 11096       |          |          |
| Cil Changed   Cilent Info   Changed   Change |   | Oil Age          | hrs    | Client Info   |           | 1000        |          |          |
| Filter Changed   Sample Status   |   | Filter Age       | hrs    | Client Info   |           | 0           |          |          |
| Iron   |   | Oil Changed      |        | Client Info   |           | Changed     |          |          |
| Iron   |   | Filter Changed   |        | Client Info   |           | Changed     |          |          |
| Chromium   ppm   ASTM DSIRS(m)   >10   0           Nickel   ppm   ASTM DSIRS(m)   >10   <1         Silver   ppm   ASTM DSIRS(m)   >10   <1         Silver   ppm   ASTM DSIRS(m)   >25   0           Aluminum   ppm   ASTM DSIRS(m)   >25   0           Tin   ppm   ASTM DSIRS(m)   >10   0           Tin   ppm   ASTM DSIRS(m)   >10   0           ASTM DSIRS(m)   >20   >20   0         ASTM DSIRS(m)   >20   >20   0         ASTM DSIRS(m)   >20   >20   >20         ASTM DSI   |   | Sample Status    |        |               |           | NORMAL      |          |          |
| Chromium   ppm   ASTM DSIRS(m)   >10   0           Nickel   ppm   ASTM DSIRS(m)   >10   <1         Silver   ppm   ASTM DSIRS(m)   >10   <1         Silver   ppm   ASTM DSIRS(m)   >25   0           Aluminum   ppm   ASTM DSIRS(m)   >25   0           Tin   ppm   ASTM DSIRS(m)   >10   0           Tin   ppm   ASTM DSIRS(m)   >10   0           ASTM DSIRS(m)   >20   >20   0         ASTM DSIRS(m)   >20   >20   0         ASTM DSIRS(m)   >20   >20   >20         ASTM DSI   | WEAR  | Iron             | nom    | ASTM D5185(m) | >500      | 16          |          |          |
| Nickel   ppm   ASTM DSISS(m)   >10   <1         Titanium   ppm   ASTM DSISS(m)   >25   0         Aluminum   ppm   ASTM DSISS(m)   >25   0         Aluminum   ppm   ASTM DSISS(m)   >25   0         Lead   ppm   ASTM DSISS(m)   >25   0         Copper   ppm   ASTM DSISS(m)   >25   0         Tin   ppm   ASTM DSISS(m)   >100   <1         Vanadium   ppm   ASTM DSISS(m)   >10   0       Vanadium   ppm   ASTM DSISS(m)   >0         Vanadium   ppm   ASTM DSISS(m)   >0         Vanadium   ppm   ASTM DSISS(m)   >0         Value   Pyellow Metal   scalar   Visual*   NONE   NONE         NONE           Potassium   ppm   ASTM DSISS(m)   >2   0         Silt   scalar   Visual*   NONE   NONE         Debris   scalar   Visual*   NONE   NONE         Debris   scalar   Visual*   NONE   NONE         Appearance   scalar   Visual*   NONE   NONE         Appearance   scalar   Visual*   NONE   VIITE         Appearance   scalar   Visual*   NORML   NORML         Codor   scalar   Visual*   NORML   NORML         Appearance   scalar   Visual*   NORML   NORML           Appearance   scalar   Visual*   NORML             Appearance   scalar   Visual*   NORML               Appearance   scalar   Visual*   NORML   |   |                  |        | . ,           |           |             |          |          |
| Titanium   | All component wear rates are normal.  |                  |        | , ,           |           |             |          |          |
| Silver   |   |                  |        | . ,           | ,         |             |          |          |
| Aluminum   ppm   ASTM D5185 m    >25   0   |   |                  |        |               |           |             |          |          |
| Lead   |   |                  |        | , ,           | >25       |             |          |          |
| Copper   ppm   ASTM DS185(m)   >10   <1         Tin   ppm   ASTM DS185(m)   >10   0       Vanadium   ppm   ASTM DS185(m)   >10   0       Vanadium   ppm   ASTM DS185(m)   NONE   NONE   NONE   NONE     Vellow Metal   scalar   Visual*   NONE   NO                 |   |                  |        |               |           |             |          |          |
| Tin  |   |                  |        | . ,           |           |             |          |          |
| Vanadium   ppm   ASTM D5185(m)   0           White Metal   Scalar   Visual*   NONE   NONE           Word Metal   Scalar   Visual*   NONE   NONE           Visual*   NONE   NONE           NONE   NONE           NONE   NONE           NONE   NONE           NONE   NONE           Water   WC Method   NONE   NONE           NONE   NONE   NONE   NONE           NONE   NONE   NONE   NONE           NONE   NONE   NONE           NONE   |   |                  |        | , ,           |           |             |          |          |
| White Metal   Scalar   Visual*   NONE   NO |   |                  |        | . ,           |           |             |          |          |
| Yellow Metal   scalar   Visual*   NONE   NONE  |   |                  |        | ( )           | NONE      |             |          |          |
| Silicon   ppm   ASTM D5185(m)   >75   <1   |   | Yellow Metal     |        | Visual*       |           |             |          |          |
| Potassium   ppm   ASTM D5185(m)   >20   0  |   |                  |        |               |           |             |          |          |
| Water   WC Method  2   NEG         Silt   scalar   Visual*   NONE   NONE         Debris   scalar   Visual*   NONE   NONE         Sand/Dirt   scalar   Visual*   NONE   NORE         Appearance   scalar   Visual*   NORML                                    | CONTAMINATION   | Silicon          | ppm    | ASTM D5185(m) | >75       | <1          |          |          |
| Silt   scalar   Visual*   NONE   NONE   NONE   Sand/Dirt   scalar   Visual*   NONE   NONE   Sand/Dirt   scalar   Visual*   NONE   VLITE   Sand/Dirt   Scalar   Visual*   NORML   NORML   Sand/Dirt   Scalar   Visual*   NORML   NORML   Sand/Dirt   Scalar   Visual*   NORML   NORML   Sand/Dirt   Scalar   Visual*   NORML   Sand/Dirt   Scalar   Visual*   NORML   Sand/Dirt   Scalar   Visual*   Scalar   Visual*   Scalar   Visual*   Scalar   Visual*   Scalar   NEG   Scalar   Scalar   Visual*   Scalar   | There is no indication of any contamination in the oil.   | Potassium        | ppm    | ASTM D5185(m) | >20       | 0           |          |          |
| Debris   Scalar   Visual*   NONE   NONE   Sand/Dirt   Scalar   Visual*   NONE   VLITE           Appearance   Scalar   Visual*   NORML   N            |   | Water            |        | WC Method     | >.2       | NEG         |          |          |
| Sand/Dirt   scalar   Visual*   NONE   VLITE         Appearance   scalar   Visual*   NORML   NORML         Odor   scalar   Visual*   NORML   NORML   NORML         Emulsified Water   scalar   Visual*   >.2   NEG       The condition of the oil is acceptable for the time in service.    Sodium   ppm   ASTM D5185(m)   200   0         Magnesium   ppm   ASTM D5185(m)   12   0         Magnesium   ppm   ASTM D5185(m)   12   <1         Calcium   ppm   ASTM D5185(m)   150   13         Phosphorus   ppm   ASTM D5185(m)   125   13         Zinc   ppm   ASTM D5185(m)   125   13         Sulfur   ppm   ASTM D5185(m)   125   13         Sulfur   ppm   ASTM D5185(m)   125   13         Sulfur   ppm   ASTM D5185(m)   125   13  |   | Silt             | scalar | Visual*       | NONE      | NONE        |          |          |
| Appearance   Scalar   Visual*   NORML   NORM |   | Debris           | scalar | Visual*       | NONE      | NONE        |          |          |
| Odor   |   | Sand/Dirt        | scalar | Visual*       | NONE      | VLITE       |          |          |
| Emulsified Water   scalar   Visual*   >.2   NEG  |   | Appearance       | scalar | Visual*       | NORML     | NORML       |          |          |
| Sodium   ppm   ASTM D5185(m)   <1           Boron   ppm   ASTM D5185(m)   400   48           Barium   ppm   ASTM D5185(m)   200   0           Molybdenum   ppm   ASTM D5185(m)   12   0           Magnesium   ppm   ASTM D5185(m)   12   <1           Calcium   ppm   ASTM D5185(m)   150   13           Phosphorus   ppm   ASTM D5185(m)   125   13           Zinc   ppm   ASTM D5185(m)   125   13           Sulfur   ppm   ASTM D5185(m)   22500   18270  |   | Odor             | scalar | Visual*       | NORML     | NORML       |          |          |
| Boron   ppm   ASTM D5185(m)   400   48   |   | Emulsified Water | scalar | Visual*       | >.2       | NEG         |          |          |
| Barium   ppm   ASTM D5185(m)   200   0         Molybdenum   ppm   ASTM D5185(m)   12   0         Manganese   ppm   ASTM D5185(m)   12   <1         Magnesium   ppm   ASTM D5185(m)   12   <1         Calcium   ppm   ASTM D5185(m)   150   13         Phosphorus   ppm   ASTM D5185(m)   1650   825         Zinc   ppm   ASTM D5185(m)   125   13         Sulfur   ppm   ASTM D5185(m)   22500   18270   | FLUID CONDITION   | Sodium           | ppm    | ASTM D5185(m) |           | <1          |          |          |
| Barium         ppm         ASTM D5185(m)         200         0             Molybdenum         ppm         ASTM D5185(m)         12         0             Manganese         ppm         ASTM D5185(m)         12         <1   | The condition of the oil is acceptable for the time in service.   | Boron            | ppm    | ASTM D5185(m) | 400       | 48          |          |          |
| Manganese         ppm         ASTM D5185(m)         <1   |   | Barium           | ppm    | ASTM D5185(m) | 200       | 0           |          |          |
| Magnesium         ppm         ASTM D5185(m)         12         <1  |   | Molybdenum       | ppm    | ASTM D5185(m) | 12        | 0           |          |          |
| Calcium         ppm         ASTM D5185(m)         150         13             Phosphorus         ppm         ASTM D5185(m)         1650         825             Zinc         ppm         ASTM D5185(m)         125         13             Sulfur         ppm         ASTM D5185(m)         22500         18270  |   | Manganese        | ppm    | ASTM D5185(m) |           | <1          |          |          |
| Phosphorus         ppm         ASTM D5185(m)         1650         825             Zinc         ppm         ASTM D5185(m)         125         13             Sulfur         ppm         ASTM D5185(m)         22500         18270   |   | Magnesium        | ppm    | ASTM D5185(m) | 12        | <1          |          |          |
| Zinc         ppm         ASTM D5185(m)         125         13             Sulfur         ppm         ASTM D5185(m)         22500         18270   |   | Calcium          | ppm    | ASTM D5185(m) | 150       | 13          |          |          |
| Sulfur         ppm         ASTM D5185(m)         22500         18270   |   | Phosphorus       | ppm    | ASTM D5185(m) | 1650      | 825         |          |          |
| · · · · · · · · · · · · · · · · · · ·  |   | Zinc             | ppm    | ASTM D5185(m) | 125       | 13          |          |          |
| Visc @ 40°C cSt ASTM D7279(m) 263 ( 177 )  |   | Sulfur           | ppm    | ASTM D5185(m) | 22500     | 18270       |          |          |
|  |   | Visc @ 40°C      | cSt    | ASTM D7279(m) | 263       | 177         |          |          |





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Laboratory Sample No. Lab Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

: WC0925785 : 02630685 Unique Number : 5763817

Received **Tested** Diagnosed Test Package : MOB 1

: 22 Apr 2024 : 22 Apr 2024

: 22 Apr 2024 - Wes Davis

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