

### Machine Id EPIROC ST7 SCP212

#### Component Front Differential

GEAR OIL SAE 85W140 (--- GAL)

# RECOMMENDATION

Resample at the next service interval to monitor.

### **WEAR**

All component wear rates are normal.

## CONTAMINATION

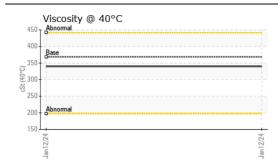
There is no indication of any contamination in the oil.

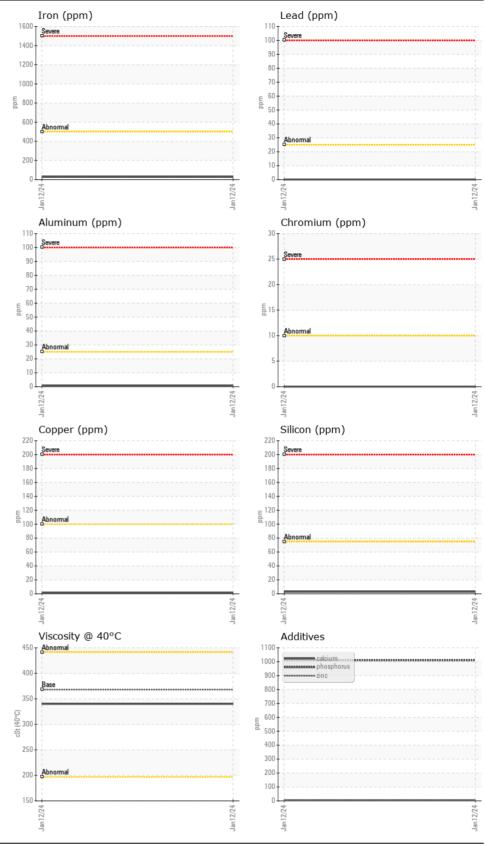
## FLUID CONDITION

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

| Test                                                                                                                                                                                                                 | UOM                                                                                                           | Method                                                                                                                                                                                                              | Limit/Abn                                                                                                 | Current                                                                                                                                                                                                   | History1 | History2     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|
| Sample Number                                                                                                                                                                                                        |                                                                                                               | Client Info                                                                                                                                                                                                         |                                                                                                           | WC0894619                                                                                                                                                                                                 |          |              |
| Sample Date                                                                                                                                                                                                          |                                                                                                               | Client Info                                                                                                                                                                                                         |                                                                                                           | 12 Jan 2024                                                                                                                                                                                               |          |              |
| Machine Age                                                                                                                                                                                                          | hrs                                                                                                           | Client Info                                                                                                                                                                                                         |                                                                                                           | 6928                                                                                                                                                                                                      |          |              |
| Oil Age                                                                                                                                                                                                              | hrs                                                                                                           | Client Info                                                                                                                                                                                                         |                                                                                                           | 0                                                                                                                                                                                                         |          |              |
| Filter Age                                                                                                                                                                                                           | hrs                                                                                                           | Client Info                                                                                                                                                                                                         |                                                                                                           | 0                                                                                                                                                                                                         |          |              |
| Oil Changed                                                                                                                                                                                                          |                                                                                                               | Client Info                                                                                                                                                                                                         |                                                                                                           | Changed                                                                                                                                                                                                   |          |              |
| Filter Changed                                                                                                                                                                                                       |                                                                                                               | Client Info                                                                                                                                                                                                         |                                                                                                           | Changed                                                                                                                                                                                                   |          |              |
| Sample Status                                                                                                                                                                                                        |                                                                                                               |                                                                                                                                                                                                                     |                                                                                                           | NORMAL                                                                                                                                                                                                    |          |              |
|                                                                                                                                                                                                                      |                                                                                                               |                                                                                                                                                                                                                     | E00                                                                                                       | 07                                                                                                                                                                                                        |          |              |
| Iron                                                                                                                                                                                                                 | ppm                                                                                                           | ASTM D5185(m)                                                                                                                                                                                                       | >500                                                                                                      | 27                                                                                                                                                                                                        |          |              |
| Chromium                                                                                                                                                                                                             | ppm                                                                                                           | ASTM D5185(m)                                                                                                                                                                                                       | >10                                                                                                       | 0                                                                                                                                                                                                         |          |              |
| Nickel                                                                                                                                                                                                               | ppm                                                                                                           | ASTM D5185(m)                                                                                                                                                                                                       | >10                                                                                                       | 0                                                                                                                                                                                                         |          |              |
| Titanium                                                                                                                                                                                                             | ppm                                                                                                           | ASTM D5185(m)                                                                                                                                                                                                       |                                                                                                           | 0                                                                                                                                                                                                         |          |              |
| Silver                                                                                                                                                                                                               | ppm                                                                                                           | ASTM D5185(m)                                                                                                                                                                                                       | . OF                                                                                                      | 0                                                                                                                                                                                                         |          |              |
| Aluminum                                                                                                                                                                                                             | ppm                                                                                                           | ASTM D5185(m)                                                                                                                                                                                                       | >25                                                                                                       | <1                                                                                                                                                                                                        |          |              |
| Lead                                                                                                                                                                                                                 | ppm                                                                                                           | ASTM D5185(m)                                                                                                                                                                                                       | >25                                                                                                       | 0                                                                                                                                                                                                         |          |              |
| Copper<br>Tin                                                                                                                                                                                                        | ppm                                                                                                           | ASTM D5185(m)                                                                                                                                                                                                       | >100<br>>10                                                                                               | 1<br>0                                                                                                                                                                                                    |          |              |
|                                                                                                                                                                                                                      | ppm                                                                                                           | ASTM D5185(m)                                                                                                                                                                                                       | >10                                                                                                       | 0                                                                                                                                                                                                         |          |              |
| Vanadium<br>White Metal                                                                                                                                                                                              | ppm<br>scalar                                                                                                 | ASTM D5185(m)<br>Visual*                                                                                                                                                                                            | NONE                                                                                                      | NONE                                                                                                                                                                                                      |          |              |
|                                                                                                                                                                                                                      |                                                                                                               |                                                                                                                                                                                                                     |                                                                                                           |                                                                                                                                                                                                           |          |              |
| Yellow Metal                                                                                                                                                                                                         | scalar                                                                                                        | Visual*                                                                                                                                                                                                             | NONE                                                                                                      | NONE                                                                                                                                                                                                      |          |              |
|                                                                                                                                                                                                                      |                                                                                                               |                                                                                                                                                                                                                     |                                                                                                           |                                                                                                                                                                                                           |          |              |
| Silicon                                                                                                                                                                                                              | ppm                                                                                                           | ASTM D5185(m)                                                                                                                                                                                                       | >75                                                                                                       | 3                                                                                                                                                                                                         |          |              |
| Silicon<br>Potassium                                                                                                                                                                                                 | ppm<br>ppm                                                                                                    | ASTM D5185(m)<br>ASTM D5185(m)                                                                                                                                                                                      | >75<br>>20                                                                                                | 3<br>0                                                                                                                                                                                                    |          |              |
|                                                                                                                                                                                                                      |                                                                                                               |                                                                                                                                                                                                                     |                                                                                                           | -                                                                                                                                                                                                         |          |              |
| Potassium                                                                                                                                                                                                            |                                                                                                               | ASTM D5185(m)                                                                                                                                                                                                       | >20                                                                                                       | 0                                                                                                                                                                                                         |          | <br><br>     |
| Potassium<br>Water                                                                                                                                                                                                   | ppm                                                                                                           | ASTM D5185(m)<br>WC Method                                                                                                                                                                                          | >20<br>>.2                                                                                                | 0<br>NEG                                                                                                                                                                                                  | <br><br> |              |
| Potassium<br>Water<br>Silt                                                                                                                                                                                           | ppm<br>scalar                                                                                                 | ASTM D5185(m)<br>WC Method<br>Visual*                                                                                                                                                                               | >20<br>>.2<br>NONE                                                                                        | 0<br>NEG<br>NONE                                                                                                                                                                                          |          |              |
| Potassium<br>Water<br>Silt<br>Debris                                                                                                                                                                                 | ppm<br>scalar<br>scalar                                                                                       | ASTM D5185(m)<br>WC Method<br>Visual*<br>Visual*                                                                                                                                                                    | >20<br>>.2<br>NONE<br>NONE                                                                                | 0<br>NEG<br>NONE<br>NONE                                                                                                                                                                                  |          |              |
| Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt                                                                                                                                                                    | ppm<br>scalar<br>scalar<br>scalar                                                                             | ASTM D5185(m)<br>WC Method<br>Visual*<br>Visual*<br>Visual*                                                                                                                                                         | >20<br>>.2<br>NONE<br>NONE<br>NONE                                                                        | 0<br>NEG<br>NONE<br>NONE                                                                                                                                                                                  |          |              |
| Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance                                                                                                                                                      | ppm<br>scalar<br>scalar<br>scalar<br>scalar                                                                   | ASTM D5185(m)<br>WC Method<br>Visual*<br>Visual*<br>Visual*<br>Visual*                                                                                                                                              | >20<br>>.2<br>NONE<br>NONE<br>NONE<br>NORML                                                               | 0<br>NEG<br>NONE<br>NONE<br>NONE<br>NORML                                                                                                                                                                 |          | <br>         |
| Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water                                                                                                                          | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar                                               | ASTM D5185(m)<br>WC Method<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*                                                                                                                        | >20<br>>.2<br>NONE<br>NONE<br>NORML<br>NORML                                                              | 0<br>NEG<br>NONE<br>NONE<br>NORE<br>NORML<br>NORML<br>NEG                                                                                                                                                 | <br><br> | <br><br><br> |
| Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium                                                                                                                | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm                                        | ASTM D5185(m)<br>WC Method<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>ASTM D5185(m)                                                                                                       | >20<br>>.2<br>NONE<br>NONE<br>NORML<br>NORML<br>>.2                                                       | 0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>0                                                                                                                                                    |          | <br><br><br> |
| Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron                                                                                                       | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm                                        | ASTM D5185(m)<br>WC Method<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>ASTM D5185(m)                                                                                                       | >20<br>>.2<br>NONE<br>NONE<br>NORML<br>>.2<br>400                                                         | 0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>0<br>175                                                                                                                                             |          |              |
| Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium                                                                                             | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm                                 | ASTM D5185(m)<br>WC Method<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>ASTM D5185(m)<br>ASTM D5185(m)                                                                                      | >20<br>>.2<br>NONE<br>NONE<br>NORML<br>NORML<br>>.2<br>400<br>200                                         | 0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>0<br>175<br>0                                                                                                                                        | <br><br> | <br><br><br> |
| Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Molybdenum                                                                               | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm                          | ASTM D5185(m)<br>WC Method<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)                                                                     | >20<br>>.2<br>NONE<br>NONE<br>NORML<br>>.2<br>400                                                         | 0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>0<br>175<br>0                                                                                                                                        |          |              |
| Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Molybdenum<br>Manganese                                                                  | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm<br>ppm                             | ASTM D5185(m)<br>WC Method<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)                                                               | >20<br>>.2<br>NONE<br>NONE<br>NORML<br>>.2<br>400<br>200<br>12                                            | 0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>0<br>175<br>0<br>0<br>0                                                                                                                              |          |              |
| Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Malybdenum<br>Manganese<br>Magnesium                                                     | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm<br>ppm                             | ASTM D5185(m)<br>WC Method<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)                                   | >20<br>>.2<br>NONE<br>NONE<br>NORML<br>NORML<br>>.2<br>400<br>200<br>12                                   | 0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>0<br>175<br>0<br>0<br>0<br>175                                                                                                                       |          |              |
| Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Malybdenum<br>Manganese<br>Magnesium<br>Calcium                                          | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm               | ASTM D5185(m)<br>WC Method<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)                                   | >20<br>>.2<br>NONE<br>NONE<br>NORML<br>NORML<br>>.2<br>400<br>200<br>12<br>12                             | 0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>0<br>175<br>0<br>175<br>0<br>0<br>2<br>0<br>175<br>0<br>2<br>0<br>175<br>0<br>0<br>175                                                               |          |              |
| Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Molybdenum<br>Malybdenum<br>Manganese<br>Magnesium<br>Calcium                            | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm               | ASTM D5185(m)<br>WC Method<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)                             | >20<br>>.2<br>NONE<br>NORM<br>NORML<br>>.2<br>400<br>200<br>12<br>12<br>12<br>150<br>1650                 | 0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>0<br>175<br>0<br>0<br>175<br>0<br>0<br>2<br>175<br>0<br>0<br>2<br>175<br>0<br>0<br>2<br>175<br>0<br>175<br>0<br>175<br>0<br>175<br>0<br>175          |          |              |
| Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Boron<br>Barium<br>Malybdenum<br>Manganese<br>Magnesium<br>Calcium<br>Phosphorus<br>Zinc | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm | ASTM D5185(m)<br>WC Method<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m) | >20<br>>.2<br>NONE<br>NONE<br>NORML<br>NORML<br>>.2<br>400<br>200<br>12<br>12<br>12<br>150<br>1650<br>125 | 0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>0<br>175<br>0<br>0<br>175<br>0<br>0<br>2<br>175<br>0<br>0<br>2<br>175<br>0<br>0<br>175<br>175<br>0<br>175<br>0<br>175<br>0<br>175<br>175<br>0<br>175 |          |              |
| Potassium<br>Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Molybdenum<br>Malybdenum<br>Manganese<br>Magnesium<br>Calcium                            | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm               | ASTM D5185(m)<br>WC Method<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>Visual*<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)                             | >20<br>>.2<br>NONE<br>NORM<br>NORML<br>>.2<br>400<br>200<br>12<br>12<br>12<br>150<br>1650                 | 0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>0<br>175<br>0<br>0<br>175<br>0<br>0<br>2<br>175<br>0<br>0<br>2<br>175<br>0<br>0<br>2<br>175<br>0<br>175<br>0<br>175<br>0<br>175<br>0<br>175          |          |              |

Contact/Location: Jay Gould - KIR370KIR





Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Agnico Eagle Canada CALA Sample No. : WC0894619 Recieved : 17 Jan 2024 1350 Government Rd. W, MACASSA COMPLEX Lab Number : 02609446 Diagnosed : 17 Jan 2024 Kirkland Lake, ON ISO 17025:2017 : 5710532 Accredited Unique Number : Kevin Marson CA P2N 3J1 Diagnostician Laboratory Test Package : MOB 1 Contact: Jay Gould To discuss this sample report, contact Customer Service at 1-800-268-2131. MacassaMobileUGPlanning@agnicoeagle.com T: (705)567-5208 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. F: (705)567-5221

Contact/Location: Jay Gould - KIR370KIR

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