

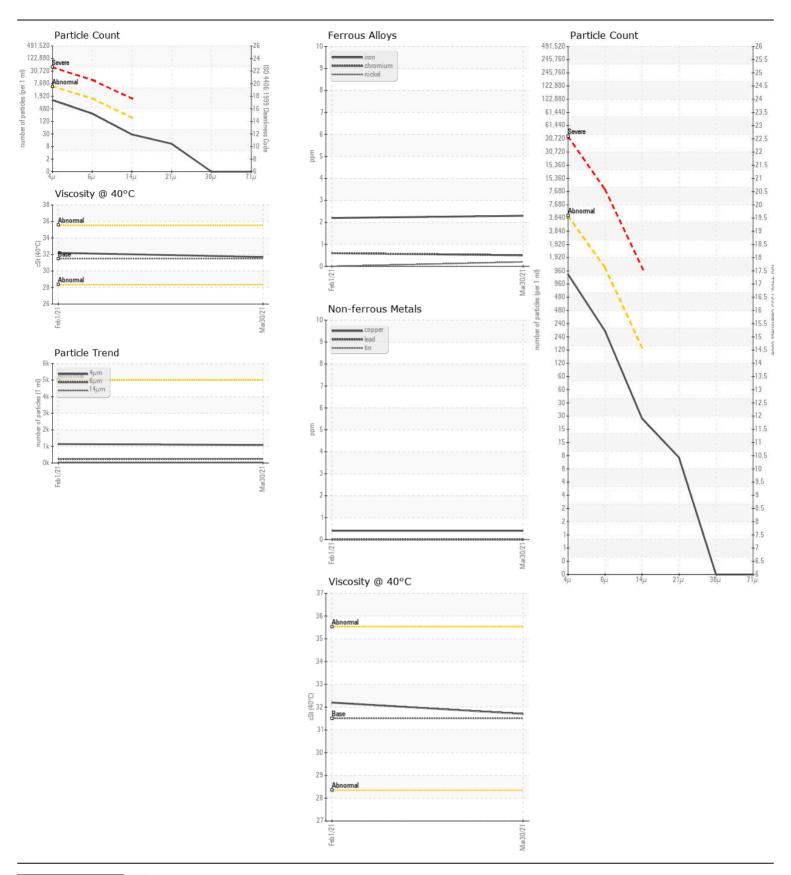
**WEAR CONTAMINATION FLUID CONDITION** 

**NORMAL NORMAL NORMAL** 

## (GMN 111) City Of Mount Pearl [3HAEKTART1ML680957] **INTERNATIONAL Side Loader Recycling Truck, 20-02G**

Component Hydraulic System

| RECOMMENDATION  Resample at the next service interval to monitor.  | Test                             | UOM    | Method                         | Limit/Abn | Current     | History1    | History2 |
|--|----------------------------------|--------|--------------------------------|-----------|-------------|-------------|----------|
|  | Sample Number                    |        | Client Info                    |           | OF0000329   | OF0000328   |          |
|  | Sample Date                      |        | Client Info                    |           | 30 Mar 2021 | 01 Feb 2021 |          |
|  | Machine Age                      | hrs    | Client Info                    |           | 804         | 643         |          |
|  | Oil Age                          | hrs    | Client Info                    |           | 804         | 643         |          |
|  | Filter Age                       | hrs    | Client Info                    |           | 161         | 643         |          |
|  | Oil Changed                      |        | Client Info                    |           | Not Changd  | Not Changd  |          |
|  | Filter Changed                   |        | Client Info                    |           | Changed     | Not Changd  |          |
|  | Sample Status                    |        |                                |           | NORMAL      | NORMAL      |          |
| /EAR   | Iron                             | ppm    | ASTM D5185(m)                  | >20       | 2           | 2           |          |
|  | Chromium                         | ppm    | ASTM D5185(m)                  |           | <1          | <1          |          |
| All component wear rates are normal.   | Nickel                           | ppm    | ASTM D5185(m)                  | >10       | <1          | 0           |          |
|  | Titanium                         | ppm    | ASTM D5185(m)                  |           | 0           | 0           |          |
|  | Silver                           | ppm    | ASTM D5185(m)                  |           | 0           | 0           |          |
|  | Aluminum                         | ppm    | ASTM D5185(m)                  | >10       | 0           | 0           |          |
|  | Lead                             | ppm    | ASTM D5185(m)                  |           | 0           | 0           |          |
|  | Copper                           | ppm    | ASTM D5185(m)                  |           | <1          | <1          |          |
|  | Tin                              | ppm    | ASTM D5185(m)                  |           | 0           | 0           |          |
|  | Vanadium                         | ppm    | ASTM D5185(m)                  | 7.0       | 0           | 0           |          |
|  | White Metal                      | scalar | Visual*                        | NONE      | NONE        | NONE        |          |
|  | Yellow Metal                     | scalar | Visual*                        | NONE      | NONE        | NONE        |          |
| ONTAMINATION   | Silicon                          |        | ACTM DE10E()                   | 00        | 4           | 0           |          |
| CONTAMINATION  The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. |                                  | ppm    | ASTM D5185(m)                  | >20       | 4           | 3           |          |
|  | Potassium<br>Water               | ppm    | ASTM D5185(m)                  |           | <1<br>NEC   | <1<br>NEC   |          |
|  |                                  |        | WC Method                      |           | NEG         | NEG         |          |
|  | Particles >4µm<br>Particles >6µm |        | ASTM D7647<br>ASTM D7647       |           | 1087<br>247 | 1143<br>229 |          |
|  | Particles >14µm                  |        | ASTM D7647                     |           | 25          | 36          |          |
|  | Particles >21µm                  |        | ASTM D7647                     |           | 9           | 15          |          |
|  | Particles >38µm                  |        | ASTM D7647                     |           | 0           | 4           |          |
|  | Particles >71µm                  |        | ASTM D7647                     |           | 0           | 0           |          |
|  | Oil Cleanliness                  |        | ISO 4406 (c)                   |           | 17/15/12    | 17/15/12    |          |
|  | Silt                             | scalar | Visual*                        | NONE      | NONE        | NONE        |          |
|  | Debris                           | scalar | Visual*                        | NONE      | NONE        | VLITE       |          |
|  | Sand/Dirt                        | scalar | Visual*                        | NONE      | NONE        | NONE        |          |
|  | Appearance                       | scalar | Visual*                        | NORML     | NORML       | NORML       |          |
|  | Odor                             | scalar | Visual*                        | NORML     | NORML       | NORML       |          |
|  | Emulsified Water                 |        |                                | >0.1      | NEG         | NEG         |          |
| LUID CONDITION   | Codium                           | nnm    | ACTM DE10E(m)                  |           |             | 0           |          |
| LUID CONDITION   | Sodium<br>Boron                  | ppm    | ASTM D5185(m)<br>ASTM D5185(m) | 0         | 0<br><1     | 0<br><1     |          |
| The condition of the oil is acceptable for the time in service.  | Barium                           | ppm    | ASTM D5185(III) ASTM D5185(m)  |           | <1<br><1    | <1          |          |
|  | Molybdenum                       | ppm    | ASTM D5185(III) ASTM D5185(m)  |           | 0           | 0           |          |
|  | Manganese                        | ppm    | ASTM D5185(m)                  |           | 0           | 0           |          |
|  | Magnesium                        | ppm    | ASTM D5185(III) ASTM D5185(m)  |           | 0<br><1     | 0           |          |
|  | Calcium                          |        | ASTM D5185(m)                  | 50        | 48          | 49          |          |
|  | Phosphorus                       | ppm    | ASTM D5185(III) ASTM D5185(m)  | 330       | 334         | 332         |          |
|  | Zinc                             | ppm    | ASTM D5185(m)                  | 430       | 403         | 399         |          |
|  | Sulfur                           | ppm    | ASTM D5185(III) ASTM D5185(m)  | 760       | 738         | 734         |          |
|  | Juliui                           | ppm    | עס וואו סט (ווו)               | 700       | 730         | 704         |          |





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : OF0000329 Lab Number : 02476316 Unique Number : 5369244 Test Package : MOB 2

: 09 Mar 2022 Received **Tested** Diagnosed

: 10 Mar 2022 : 10 Mar 2022 - Wes Davis Oil Filtration Solutions Ltd. PO BOX 16125

CONCEPTION BAY SOUTH, NL CA A1X 2E2

Contact: BILL BUTLER BBUTLER@OILFILTRATIONSOLUTIONS.COM

T: (709)834-8433

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.

F: (709)834-8435