

## **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL

### Area Assy RO/Rig 24 DEC 7525

Hydraulic System Fluid SKYDROL LD-4 (--- GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

#### Wear

All component wear rates are normal.

#### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| SAMPLE INFORM                                                                                                                                                                                                                  | <b>NATION</b>                                                    | method                                                                                                                                                                                                                                                                      | limit/base                                                                                                                      | current                                                                    | history1                                                                          | history2                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------|
| Sample Number                                                                                                                                                                                                                  |                                                                  | Client Info                                                                                                                                                                                                                                                                 |                                                                                                                                 | WC0926849                                                                  | WC0920419                                                                         |                                                                  |
| Sample Date                                                                                                                                                                                                                    |                                                                  | Client Info                                                                                                                                                                                                                                                                 |                                                                                                                                 | 03 Apr 2024                                                                | 12 Mar 2024                                                                       |                                                                  |
| Machine Age                                                                                                                                                                                                                    | hrs                                                              | Client Info                                                                                                                                                                                                                                                                 |                                                                                                                                 | 0                                                                          | 0                                                                                 |                                                                  |
| Oil Age                                                                                                                                                                                                                        | hrs                                                              | Client Info                                                                                                                                                                                                                                                                 |                                                                                                                                 | 0                                                                          | 0                                                                                 |                                                                  |
| Oil Changed                                                                                                                                                                                                                    |                                                                  | Client Info                                                                                                                                                                                                                                                                 |                                                                                                                                 | N/A                                                                        | N/A                                                                               |                                                                  |
| Sample Status                                                                                                                                                                                                                  |                                                                  |                                                                                                                                                                                                                                                                             |                                                                                                                                 | NORMAL                                                                     | NORMAL                                                                            |                                                                  |
| WEAR METALS                                                                                                                                                                                                                    |                                                                  | method                                                                                                                                                                                                                                                                      | limit/base                                                                                                                      | current                                                                    | history1                                                                          | history2                                                         |
| Iron                                                                                                                                                                                                                           | ppm                                                              | ASTM D5185(m)                                                                                                                                                                                                                                                               | >20                                                                                                                             | 0                                                                          | 0                                                                                 |                                                                  |
| Chromium                                                                                                                                                                                                                       | ppm                                                              | ASTM D5185(m)                                                                                                                                                                                                                                                               | >20                                                                                                                             | 0                                                                          | 0                                                                                 |                                                                  |
| Nickel                                                                                                                                                                                                                         | ppm                                                              | ASTM D5185(m)                                                                                                                                                                                                                                                               | >20                                                                                                                             | 0                                                                          | <1                                                                                |                                                                  |
| Titanium                                                                                                                                                                                                                       | ppm                                                              | ASTM D5185(m)                                                                                                                                                                                                                                                               |                                                                                                                                 | 0                                                                          | 0                                                                                 |                                                                  |
| Silver                                                                                                                                                                                                                         | ppm                                                              | ASTM D5185(m)                                                                                                                                                                                                                                                               |                                                                                                                                 | 0                                                                          | 0                                                                                 |                                                                  |
| Aluminum                                                                                                                                                                                                                       | ppm                                                              | ASTM D5185(m)                                                                                                                                                                                                                                                               | >20                                                                                                                             | 0                                                                          | <1                                                                                |                                                                  |
| Lead                                                                                                                                                                                                                           | ppm                                                              | ASTM D5185(m)                                                                                                                                                                                                                                                               | >20                                                                                                                             | 0                                                                          | 0                                                                                 |                                                                  |
| Copper                                                                                                                                                                                                                         | ppm                                                              | ASTM D5185(m)                                                                                                                                                                                                                                                               | >20                                                                                                                             | <1                                                                         | <1                                                                                |                                                                  |
| Tin                                                                                                                                                                                                                            | ppm                                                              | ASTM D5185(m)                                                                                                                                                                                                                                                               | >20                                                                                                                             | 0                                                                          | 0                                                                                 |                                                                  |
| Antimony                                                                                                                                                                                                                       | ppm                                                              | ASTM D5185(m)                                                                                                                                                                                                                                                               |                                                                                                                                 | 0                                                                          | 0                                                                                 |                                                                  |
| Vanadium                                                                                                                                                                                                                       | ppm                                                              | ASTM D5185(m)                                                                                                                                                                                                                                                               |                                                                                                                                 | 0                                                                          | 0                                                                                 |                                                                  |
| Beryllium                                                                                                                                                                                                                      | ppm                                                              | ASTM D5185(m)                                                                                                                                                                                                                                                               |                                                                                                                                 | 0                                                                          | 0                                                                                 |                                                                  |
| Cadmium                                                                                                                                                                                                                        | ppm                                                              | ASTM D5185(m)                                                                                                                                                                                                                                                               |                                                                                                                                 | 0                                                                          | 0                                                                                 |                                                                  |
| ADDITIVES                                                                                                                                                                                                                      |                                                                  | method                                                                                                                                                                                                                                                                      | limit/base                                                                                                                      | current                                                                    | history1                                                                          | history2                                                         |
| Boron                                                                                                                                                                                                                          | ppm                                                              | ASTM D5185(m)                                                                                                                                                                                                                                                               | 0                                                                                                                               | 2                                                                          | 1                                                                                 |                                                                  |
| Barium                                                                                                                                                                                                                         | ppm                                                              | ASTM D5185(m)                                                                                                                                                                                                                                                               | 0                                                                                                                               | 0                                                                          | 0                                                                                 |                                                                  |
| Molybdenum                                                                                                                                                                                                                     | ppm                                                              | ASTM D5185(m)                                                                                                                                                                                                                                                               | 0                                                                                                                               | 0                                                                          | 0                                                                                 |                                                                  |
|                                                                                                                                                                                                                                |                                                                  |                                                                                                                                                                                                                                                                             |                                                                                                                                 |                                                                            |                                                                                   |                                                                  |
| Manganese                                                                                                                                                                                                                      | ppm                                                              | ASTM D5185(m)                                                                                                                                                                                                                                                               |                                                                                                                                 | 0                                                                          | 0                                                                                 |                                                                  |
| Manganese<br>Magnesium                                                                                                                                                                                                         | ppm<br>ppm                                                       | ASTM D5185(m)<br>ASTM D5185(m)                                                                                                                                                                                                                                              | 0                                                                                                                               | 0<br><1                                                                    | 0<br><1                                                                           |                                                                  |
| -                                                                                                                                                                                                                              |                                                                  | × 7                                                                                                                                                                                                                                                                         |                                                                                                                                 | -                                                                          |                                                                                   |                                                                  |
| Magnesium                                                                                                                                                                                                                      | ppm                                                              | ASTM D5185(m)                                                                                                                                                                                                                                                               |                                                                                                                                 | <1                                                                         | <1                                                                                |                                                                  |
| Magnesium<br>Calcium                                                                                                                                                                                                           | ppm<br>ppm                                                       | ASTM D5185(m)<br>ASTM D5185(m)                                                                                                                                                                                                                                              | 0<br>20000                                                                                                                      | <1<br>2                                                                    | <1<br>3                                                                           |                                                                  |
| Magnesium<br>Calcium<br>Phosphorus                                                                                                                                                                                             | ppm<br>ppm<br>ppm                                                | ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)                                                                                                                                                                                                                             | 0<br>20000                                                                                                                      | <1<br>2<br>41793                                                           | <1<br>3<br>39628                                                                  |                                                                  |
| Magnesium<br>Calcium<br>Phosphorus<br>Zinc                                                                                                                                                                                     | ppm<br>ppm<br>ppm<br>ppm                                         | ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)                                                                                                                                                                                                            | 0<br>20000<br>0                                                                                                                 | <1<br>2<br>41793<br>2                                                      | <1<br>3<br>39628<br>2                                                             |                                                                  |
| Magnesium<br>Calcium<br>Phosphorus<br>Zinc<br>Sulfur                                                                                                                                                                           | ppm<br>ppm<br>ppm<br>ppm<br>ppm                                  | ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)                                                                                                                                                                                           | 0<br>20000<br>0                                                                                                                 | <1<br>2<br>41793<br>2<br>1551                                              | <1<br>3<br>39628<br>2<br>1692                                                     |                                                                  |
| Magnesium<br>Calcium<br>Phosphorus<br>Zinc<br>Sulfur<br>Lithium                                                                                                                                                                | ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm                           | ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)                                                                                                                                                                          | 0<br>20000<br>0<br>1900<br>limit/base                                                                                           | <1<br>2<br>41793<br>2<br>1551<br><1                                        | <1<br>3<br>39628<br>2<br>1692<br><1                                               |                                                                  |
| Magnesium<br>Calcium<br>Phosphorus<br>Zinc<br>Sulfur<br>Lithium<br>CONTAMINANTS                                                                                                                                                | ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm                           | ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br><b>method</b><br>ASTM D5185(m)                                                                                                                                        | 0<br>20000<br>0<br>1900<br>limit/base<br>>15                                                                                    | <1<br>2<br>41793<br>2<br>1551<br><1<br>current                             | <1<br>3<br>39628<br>2<br>1692<br><1<br>kistory1                                   |                                                                  |
| Magnesium<br>Calcium<br>Phosphorus<br>Zinc<br>Sulfur<br>Lithium<br>CONTAMINANTS<br>Silicon                                                                                                                                     | ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm                           | ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>method                                                                                                                                                                | 0<br>20000<br>0<br>1900<br>limit/base<br>>15                                                                                    | <1<br>2<br>41793<br>2<br>1551<br><1<br>current<br>0                        | <1<br>3<br>39628<br>2<br>1692<br><1<br>history1<br><1                             | <br><br><br><br>history2                                         |
| Magnesium<br>Calcium<br>Phosphorus<br>Zinc<br>Sulfur<br>Lithium<br>CONTAMINANTS<br>Silicon<br>Sodium<br>Potassium                                                                                                              | ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm                           | 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)<br>ASTM D5185(m)                                                                                                                                        | 0<br>20000<br>0<br>1900<br>limit/base<br>>15                                                                                    | <1<br>2<br>41793<br>2<br>1551<br><1<br>current<br>0<br>3<br>20             | <1<br>3<br>39628<br>2<br>1692<br><1<br>+<br>istory1<br><1<br>3                    | <br><br><br>history2                                             |
| Magnesium<br>Calcium<br>Phosphorus<br>Zinc<br>Sulfur<br>Lithium<br>CONTAMINANTS<br>Silicon<br>Sodium                                                                                                                           | ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm      | 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)<br>ASTM D5185(m)<br>ASTM D5185(m)                                                                                                                       | 0<br>20000<br>0<br>1900<br><b>limit/base</b><br>>15<br>>20                                                                      | <1<br>2<br>41793<br>2<br>1551<br><1<br>current<br>0<br>3                   | <1<br>3<br>39628<br>2<br>1692<br><1<br><b>history1</b><br><1<br>3<br>19           | <br><br><br>history2<br><br>                                     |
| Magnesium<br>Calcium<br>Phosphorus<br>Zinc<br>Sulfur<br>Lithium<br>CONTAMINANTS<br>Silicon<br>Sodium<br>Potassium<br>Water                                                                                                     | ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<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)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D6304*                                                                                                        | 0<br>20000<br>0<br>1900<br><b>limit/base</b><br>>15<br>>20<br>>0.6                                                              | <1 2 41793 2 1551 <1 current 0 3 20 0.336                                  | <1<br>3<br>39628<br>2<br>1692<br><1<br><b>history1</b><br><1<br>3<br>19<br>0.323  | <br><br><br>history2<br><br>                                     |
| Magnesium<br>Calcium<br>Phosphorus<br>Zinc<br>Sulfur<br>Lithium<br>CONTAMINANTS<br>Silicon<br>Sodium<br>Potassium<br>Water<br>ppm Water<br>FLUID CLEANLIN                                                                      | ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>% | ASTM D5185(m)<br>ASTM D5304*                                                                                       | 0<br>20000<br>0<br>1900<br><b>limit/base</b><br>>15<br>>20<br>>0.6<br>>6000                                                     | <1 2 41793 2 1551 <1  current 0 3 20 0.336 3368                            | <1<br>3<br>39628<br>2<br>1692<br><1<br>history1<br><1<br>3<br>19<br>0.323<br>3232 | <br><br><br>history2<br><br><br>                                 |
| Magnesium<br>Calcium<br>Phosphorus<br>Zinc<br>Sulfur<br>Lithium<br>CONTAMINANTS<br>Silicon<br>Sodium<br>Potassium<br>Water<br>ppm Water<br>FLUID CLEANLIN<br>Particles >4µm                                                    | ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<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)<br>ASTM D5185(m)<br>ASTM D5185(m)<br>ASTM D6304*<br>ASTM D6304*                                                                                         | 0<br>20000<br>0<br>1900<br>Imit/base<br>>15<br>>20<br>>0.6<br>>6000<br>Imit/base                                                | <1 2 41793 2 1551 <1                                                       | <1 3 39628 2 1692 <1 history1 <1 3 19 0.323 3232 history1                         | <br><br><br>history2<br><br><br><br><br>history2                 |
| Magnesium<br>Calcium<br>Phosphorus<br>Zinc<br>Sulfur<br>Lithium<br>CONTAMINANTS<br>Silicon<br>Sodium<br>Potassium<br>Water<br>ppm Water<br>FLUID CLEANLIN<br>Particles >4µm<br>Particles >6µm                                  | ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>% | ASTM D5185(m)<br>ASTM D6304*<br>ASTM D6304*<br>ASTM D6304*                                                         | 0<br>20000<br>0<br>1900<br><b>imit/base</b><br>>15<br>>20<br>>20<br>>0.6<br>>6000<br><b>imit/base</b><br>>5000<br>>1300         | <1 2 41793 2 1551 <1                                                       | <1 3 39628 2 1692 <1 1692 <1 history1 <1 3 19 0.323 3232 history1 1948 412        | <br><br><br>history2<br><br><br><br><br>history2                 |
| Magnesium<br>Calcium<br>Phosphorus<br>Zinc<br>Sulfur<br>Lithium<br>CONTAMINANTS<br>Silicon<br>Sodium<br>Potassium<br>Water<br>ppm Water<br>Ppm Water<br>FLUID CLEANLIN<br>Particles >6µm<br>Particles >14µm                    | ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>% | ASTM D5185(m)<br>ASTM D6304*<br>ASTM D6304*<br>ASTM D6304*<br>ASTM D7647<br>ASTM D7647<br>ASTM D7647               | 0<br>20000<br>0<br>1900<br><b>imit/base</b><br>>15<br>>20<br>>20<br>>0.6<br>>6000<br><b>imit/base</b><br>>5000<br>>1300<br>>160 | <1 2 41793 2 1551 <1 1551 <1 Current 0 3 20 0.336 3368 Current 1339 309 36 | <1 3 39628 2 1692 <1 1692 <1 history1 <1 3 19 0.323 3232 history1 1948 412 19     | <br><br><br>history2<br><br><br><br>history2<br><br>history2     |
| Magnesium<br>Calcium<br>Phosphorus<br>Zinc<br>Sulfur<br>Lithium<br>CONTAMINANTS<br>Silicon<br>Sodium<br>Potassium<br>Water<br>ppm Water<br>Ppm Water<br>FLUID CLEANLIN<br>Particles >4µm<br>Particles >14µm<br>Particles >21µm | ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>% | ASTM D5185(m)<br>ASTM D5047<br>ASTM D7647<br>ASTM D7647<br>ASTM D7647<br>ASTM D7647<br>ASTM D7647 | 0<br>20000<br>0<br>1900<br><b>Imit/base</b><br>>15<br>>20<br>>0.6<br>>6000<br><b>Imit/base</b><br>>5000<br>>1300<br>>160<br>>40 | <1 2 41793 2 1551 <1                                                       | <1 3 39628 2 1692 <1 1692 <1 history1 <1 3 19 0.323 3232 history1 1948 412        | <br><br><br>history2<br><br><br><br>history2<br><br>history2     |
| Magnesium<br>Calcium<br>Phosphorus<br>Zinc<br>Sulfur<br>Lithium<br>CONTAMINANTS<br>Silicon<br>Sodium<br>Potassium<br>Water<br>ppm Water<br>Ppm Water<br>FLUID CLEANLIN<br>Particles >6µm<br>Particles >14µm                    | ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>% | ASTM D5185(m)<br>ASTM D6304*<br>ASTM D6304*<br>ASTM D6304*<br>ASTM D7647<br>ASTM D7647<br>ASTM D7647               | 0<br>20000<br>0<br>1900<br>>15<br>>15<br>>20<br>>0.6<br>>6000<br>>0<br>imit/base<br>>5000<br>>1300<br>>160<br>>40<br>>10        | <1 2 41793 2 1551 <1 1551 <1 Current 0 3 20 0.336 3368 Current 1339 309 36 | <1 3 39628 2 1692 <1 1692 <1 1692 <1 10 0.323 3232                                | <br><br><br>history2<br><br><br><br><br>history2<br><br>history2 |



# **OIL ANALYSIS REPORT**

| Water (KF)                                                  | FLUID DEGRAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ATION                                | method                    | limit/base                                                 | current       | history1 | history2                                                        |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------|------------------------------------------------------------|---------------|----------|-----------------------------------------------------------------|
| 00 - Severe                                                 | Acid Number (AN)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | mg KOH/g                             | ASTM D974*                | 0.10                                                       | 0.03          | 0.04     |                                                                 |
| 00-00-                                                      | VISUAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                      | method                    | limit/base                                                 | current       | history1 | history2                                                        |
| 00 - Abnormal                                               | White Metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | scalar                               | Visual*                   | NONE                                                       | NONE          | NONE     |                                                                 |
|                                                             | Yellow Metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | scalar                               | Visual*                   | NONE                                                       | NONE          | NONE     |                                                                 |
| 00-                                                         | Precipitate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | scalar                               | Visual*                   | NONE                                                       | NONE          | NONE     |                                                                 |
| ar12/24 +                                                   | Silt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | scalar                               | Visual*                   | NONE                                                       | NONE          | NONE     |                                                                 |
| Marl 2/24                                                   | Debris                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | scalar                               | Visual*                   | NONE                                                       | NONE          | NONE     |                                                                 |
| Particle Trend                                              | Sand/Dirt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | scalar                               | Visual*                   | NONE                                                       | NONE          | NONE     |                                                                 |
|                                                             | Appearance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | scalar                               | Visual*                   | NORML                                                      | NORML         | NORML    |                                                                 |
| k - μοποιτια - 4μm<br>βματικά βμα                           | Odor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                      | Visual*                   | NORML                                                      | NORML         | NORML    |                                                                 |
| k                                                           | Emulsified Water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | scalar                               | Visual*                   | >0.6                                                       | NEG           | NEG      |                                                                 |
|                                                             | Free Water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | scalar                               | Visual*                   |                                                            | NEG           | NEG      |                                                                 |
| k                                                           | FLUID PROPER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TIES                                 | method                    | limit/base                                                 | current       | history1 | history2                                                        |
| k                                                           | Visc @ 40°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | cSt                                  | ASTM D7279(m)             | 11.42                                                      | 8.7           | 8.6      |                                                                 |
| Mar12/24                                                    | SAMPLE IMAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | S                                    | method                    | limit/base                                                 | current       | history1 | history2                                                        |
| ≥<br>Water (KF)                                             | Color                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                      |                           |                                                            |               |          | no image                                                        |
| 0 +                                                         | Bottom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                      |                           |                                                            |               |          | no image                                                        |
| 0                                                           | GRAPHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                      |                           |                                                            |               |          |                                                                 |
| Ма1 2/2 пр. Ма1 2/2 година.<br>Россили                      | Ferrous Alloys                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                      |                           | 491,52                                                     | Particle Coun | t        | т26                                                             |
| W                                                           | iron                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                      |                           |                                                            |               |          |                                                                 |
| Viscosity @ 40°C                                            | E. 5 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                      |                           | 122,88                                                     | Severe        |          | +24                                                             |
| Severe                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |                           | 30,72                                                      | 0-            |          | -22                                                             |
|                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |                           | ₹ Ē <sup>7,68</sup>                                        | 0 Abnormal    |          | -20 8                                                           |
| 8+                                                          | Mar12/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                      |                           | Apr3/24 .<br>(per 1 ml)                                    | 0             | <b>N</b> | -18                                                             |
| 8 - Abnormal                                                | –<br>Non-ferrous Meta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ls                                   |                           | Apr3/24 4<br>particles (per 1 ml)<br>2601                  |               |          | -20<br>-18<br>-16                                               |
| 6 - Severe                                                  | 10 copper ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                      |                           | 5                                                          |               | •        | 14                                                              |
| 4                                                           | unnesses lead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                      |                           | 12 numper                                                  |               |          | -12                                                             |
| Marl 2/24                                                   | 5. 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                      |                           | 3                                                          |               |          | 12                                                              |
| × v                                                         | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                      |                           |                                                            | 8-            |          | +10                                                             |
| Particle Trend                                              | 12/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                      |                           | Apr3/24                                                    | 2-            |          | -8                                                              |
| 4μm                                                         | Mai                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      |                           | A                                                          | 0<br>4µ 6µ    | 14µ 21µ  | 38µ 71µ                                                         |
| kk - δοτοπτά<br>δμm<br>···································· | Viscosity @ 40°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Acid Number                          |                           | - <i>j</i>                                                 |               |          |                                                                 |
| k +                                                         | 12 Basemal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      | Severe                    |                                                            | 1             |          |                                                                 |
| k                                                           | (1)010<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00<br>(1)00 |                                      |                           | ()<br>HOX Bu<br>1.5<br>L<br>HOX Bu<br>1.0<br>L<br>HOX 0.5  | Abnormal      |          |                                                                 |
| k +                                                         | <sup>3</sup> Abnormal<br>6 Severe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                      |                           |                                                            | 0             |          |                                                                 |
|                                                             | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                      |                           | ÷                                                          | 0             |          | 4                                                               |
| Mar12/24                                                    | Mar12/2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                      |                           | Apr3/24                                                    | Mar12/24      |          | Apr3/24                                                         |
| Laboratory<br>Sample No.<br>Lab Number                      | : WearCheck - C8-117<br>: WC0926849                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5 Appleby<br>Recei<br>Teste<br>Diagr | <b>ved</b> : 04<br>d : 05 | igton, ON L7<br>1 Apr 2024<br>5 Apr 2024<br>5 Apr 2024 - V | L 5H9         |          | d <b>ing Systems</b><br>4 Monarch Ave<br>Ajax, ON<br>CA L1S 2G8 |

Report Id: SAFAJA2 [WCAMIS] 02626820 (Generated: 04/05/2024 17:28:15) Rev: 1

Contact/Location: Stuart Potter - SAFAJA2 Page 2 of 2