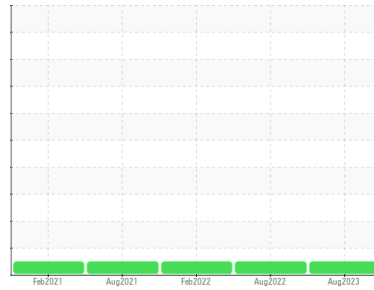




# OIL ANALYSIS REPORT

## Sample Rating Trend

**NORMAL**



Area  
**[6158898]**  
 Machine Id  
**5001-PR26-INV04**

Component  
**Hydraulic System**  
 Fluid  
**AW HYDRAULIC OIL ISO 46 (--- GAL)**

### DIAGNOSIS

#### Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. 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 INFORMATION |             | method      | limit/base | current            | history1    | history2    |
|--------------------|-------------|-------------|------------|--------------------|-------------|-------------|
| Sample Number      | Client Info |             |            | <b>CB0031442</b>   | CB          | CB          |
| Sample Date        | Client Info |             |            | <b>01 Aug 2023</b> | 09 Aug 2022 | 04 Feb 2022 |
| Machine Age        | hrs         | Client Info |            | <b>0</b>           | 0           | 0           |
| Oil Age            | hrs         | Client Info |            | <b>0</b>           | 0           | 0           |
| Oil Changed        | Client Info |             |            | <b>N/A</b>         | N/A         | N/A         |
| Sample Status      |             |             |            | <b>NORMAL</b>      | NORMAL      | NORMAL      |

| WEAR METALS |     | method        | limit/base | current      | history1 | history2 |
|-------------|-----|---------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185(m) | >20        | <b>1</b>     | <1       | <1       |
| Chromium    | ppm | ASTM D5185(m) | >20        | <b>0</b>     | 0        | 0        |
| Nickel      | ppm | ASTM D5185(m) | >20        | <b>&lt;1</b> | <1       | <1       |
| Titanium    | ppm | ASTM D5185(m) |            | <b>0</b>     | 0        | 0        |
| Silver      | ppm | ASTM D5185(m) |            | <b>0</b>     | 0        | 0        |
| Aluminum    | ppm | ASTM D5185(m) | >20        | <b>0</b>     | <1       | 0        |
| Lead        | ppm | ASTM D5185(m) | >20        | <b>&lt;1</b> | <1       | 0        |
| Copper      | ppm | ASTM D5185(m) | >20        | <b>2</b>     | 1        | 1        |
| Tin         | ppm | ASTM D5185(m) | >20        | <b>0</b>     | 0        | 0        |
| Antimony    | ppm | ASTM D5185(m) |            | <b>0</b>     | <1       | <1       |
| Vanadium    | ppm | ASTM D5185(m) |            | <b>0</b>     | 0        | 0        |
| Beryllium   | ppm | ASTM D5185(m) |            | <b>0</b>     | 0        | 0        |
| Cadmium     | ppm | ASTM D5185(m) |            | <b>0</b>     | 0        | 0        |

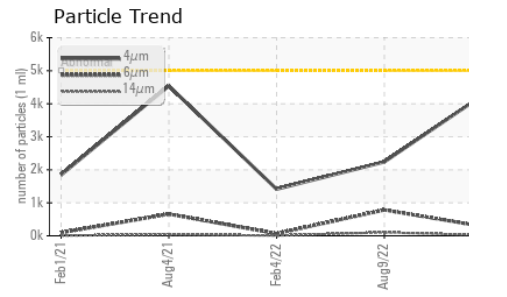
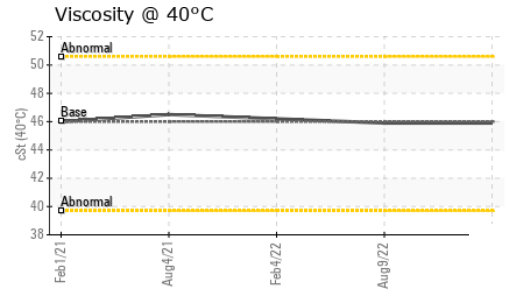
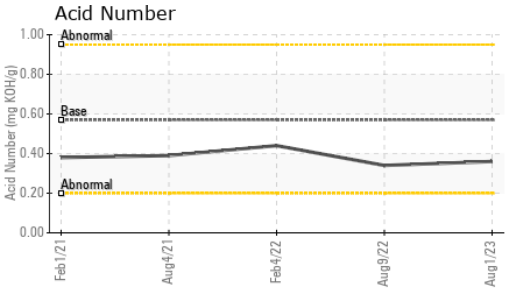
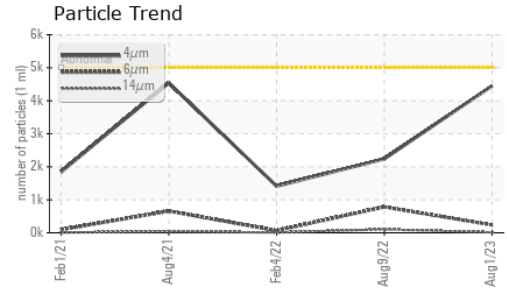
| ADDITIVES  |     | method        | limit/base | current      | history1 | history2 |
|------------|-----|---------------|------------|--------------|----------|----------|
| Boron      | ppm | ASTM D5185(m) | 5          | <b>&lt;1</b> | 0        | <1       |
| Barium     | ppm | ASTM D5185(m) | 5          | <b>0</b>     | 0        | 0        |
| Molybdenum | ppm | ASTM D5185(m) | 5          | <b>0</b>     | 0        | 0        |
| Manganese  | ppm | ASTM D5185(m) |            | <b>0</b>     | 0        | 0        |
| Magnesium  | ppm | ASTM D5185(m) | 25         | <b>&lt;1</b> | 0        | 0        |
| Calcium    | ppm | ASTM D5185(m) | 200        | <b>52</b>    | 53       | 54       |
| Phosphorus | ppm | ASTM D5185(m) | 300        | <b>353</b>   | 300      | 328      |
| Zinc       | ppm | ASTM D5185(m) | 370        | <b>408</b>   | 378      | 406      |
| Sulfur     | ppm | ASTM D5185(m) | 2500       | <b>762</b>   | 749      | 757      |
| Lithium    | ppm | ASTM D5185(m) |            | <b>&lt;1</b> | <1       | <1       |

| CONTAMINANTS |     | method        | limit/base | current      | history1 | history2 |
|--------------|-----|---------------|------------|--------------|----------|----------|
| Silicon      | ppm | ASTM D5185(m) | >15        | <b>&lt;1</b> | 0        | 0        |
| Sodium       | ppm | ASTM D5185(m) |            | <b>&lt;1</b> | 0        | 0        |
| Potassium    | ppm | ASTM D5185(m) | >20        | <b>&lt;1</b> | <1       | <1       |

| FLUID CLEANLINESS |  | method       | limit/base | current         | history1 | history2 |
|-------------------|--|--------------|------------|-----------------|----------|----------|
| Particles >4µm    |  | ASTM D7647   | >5000      | <b>4453</b>     | 2239     | 1413     |
| Particles >6µm    |  | ASTM D7647   | >1300      | <b>237</b>      | 784      | 67       |
| Particles >14µm   |  | ASTM D7647   | >160       | <b>12</b>       | 104      | 7        |
| Particles >21µm   |  | ASTM D7647   | >40        | <b>3</b>        | 34       | 1        |
| Particles >38µm   |  | ASTM D7647   | >10        | <b>1</b>        | 3        | 0        |
| Particles >71µm   |  | ASTM D7647   | >3         | <b>0</b>        | 1        | 0        |
| Oil Cleanliness   |  | ISO 4406 (c) | >19/17/14  | <b>19/15/11</b> | 18/17/14 | 18/13/10 |

| FLUID DEGRADATION |          | method     | limit/base | current     | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN)  | mg KOH/g | ASTM D974* | 0.57       | <b>0.36</b> | 0.34     | 0.44     |

# OIL ANALYSIS REPORT

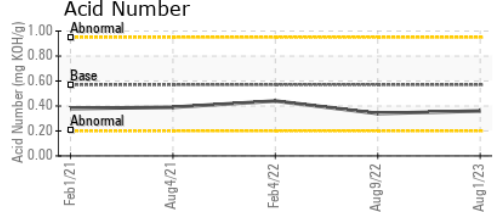
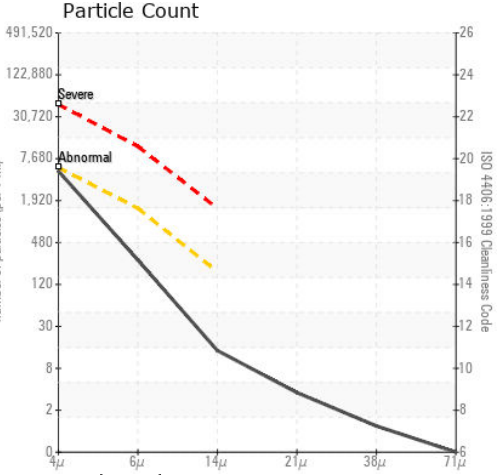
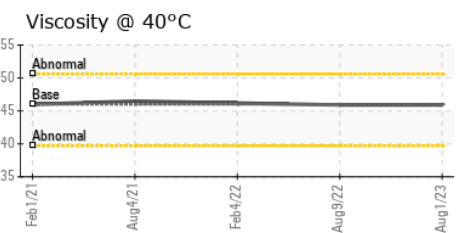
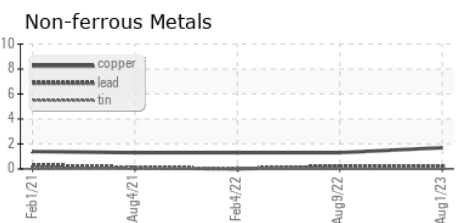
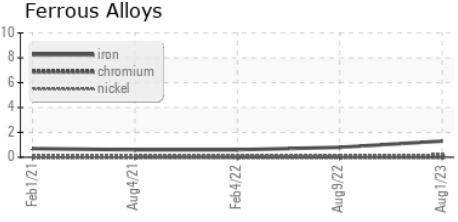


| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | Visual*    | NONE    | NONE     | NONE     |
| Yellow Metal     | scalar | Visual*    | NONE    | NONE     | NONE     |
| Precipitate      | scalar | Visual*    | NONE    | NONE     | NONE     |
| Silt             | scalar | Visual*    | NONE    | NONE     | NONE     |
| Debris           | scalar | Visual*    | NONE    | NONE     | NONE     |
| Sand/Dirt        | scalar | Visual*    | NONE    | NONE     | NONE     |
| Appearance       | scalar | Visual*    | NORML   | NORML    | NORML    |
| Odor             | scalar | Visual*    | NORML   | NORML    | NORML    |
| Emulsified Water | scalar | Visual*    | >0.05   | NEG      | NEG      |
| Free Water       | scalar | Visual*    |         | NEG      | NEG      |

| FLUID PROPERTIES | method | limit/base    | current | history1 | history2 |
|------------------|--------|---------------|---------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D7279(m) | 46      | 45.9     | 46.2     |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
| Color         |        |            |         |          |          |
| Bottom        |        |            |         |          |          |

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : CB0031442  
**Lab Number** : 02575926  
**Unique Number** : 5628986  
**Test Package** : IND 2

**Received** : 15 Aug 2023  
**Diagnosed** : 16 Aug 2023  
**Diagnostician** : Wes Davis

**Synovos/Apotex**  
 50 Steinway Blvd.  
 Etobicoke, ON  
 CA M9W 6Y3  
 Contact: Calvin Shum  
 cshum@apotex.com

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.