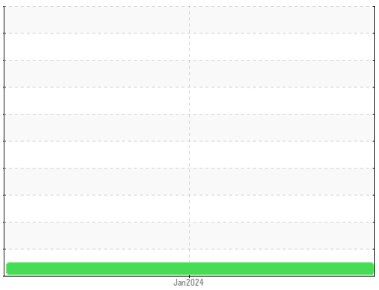
# OIL ANALYSIS REPORT

Sample Rating Trend




NORMAL

Area
## Building 17 Powerhouse
Machine Id
## COMPRESSOR 5
Component
**Reservoir Compressor**
Fluid
**COMPRESSOR OIL (PAG) ISO 46 (--- GAL)**

## DIAGNOSIS

**Recommendation**
We recommend you service the filters on this component. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please provide more complete information on your next sample.

**Wear**
All component wear rates are normal.

**Contamination**
There is a light amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

**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 | | **WC** | --- | --- |
| Sample Date | | Client Info | | **08 Jan 2024** | --- | --- |
| Machine Age | hrs | Client Info | | **0** | --- | --- |
| Oil Age | hrs | Client Info | | **0** | --- | --- |
| Oil Changed | | Client Info | | **N/A** | --- | --- |
| Sample Status | | | | **NORMAL** | --- | --- |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185(m) | >50 | **0** | --- | --- |
| Chromium | ppm | ASTM D5185(m) | >10 | **0** | --- | --- |
| Nickel | ppm | ASTM D5185(m) | | **<1** | --- | --- |
| Titanium | ppm | ASTM D5185(m) | | **0** | --- | --- |
| Silver | ppm | ASTM D5185(m) | | **0** | --- | --- |
| Aluminum | ppm | ASTM D5185(m) | >25 | **<1** | --- | --- |
| Lead | ppm | ASTM D5185(m) | >25 | **6** | --- | --- |
| Copper | ppm | ASTM D5185(m) | >50 | **2** | --- | --- |
| Tin | ppm | ASTM D5185(m) | >15 | **0** | --- | --- |
| Antimony | ppm | ASTM D5185(m) | | **0** | --- | --- |
| Vanadium | ppm | ASTM D5185(m) | | **0** | --- | --- |
| Beryllium | ppm | ASTM D5185(m) | | **0** | --- | --- |
| Cadmium | ppm | ASTM D5185(m) | | **0** | --- | --- |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185(m) | 2 | **<1** | --- | --- |
| Barium | ppm | ASTM D5185(m) | 525 | **417** | --- | --- |
| Molybdenum | ppm | ASTM D5185(m) | 10 | **0** | --- | --- |
| Manganese | ppm | ASTM D5185(m) | | **0** | --- | --- |
| Magnesium | ppm | ASTM D5185(m) | 5 | **<1** | --- | --- |
| Calcium | ppm | ASTM D5185(m) | 10 | **3** | --- | --- |
| Phosphorus | ppm | ASTM D5185(m) | 250 | **0** | --- | --- |
| Zinc | ppm | ASTM D5185(m) | 100 | **4** | --- | --- |
| Sulfur | ppm | ASTM D5185(m) | 400 | **200** | --- | --- |
| Lithium | ppm | ASTM D5185(m) | | **<1** | --- | --- |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185(m) | >25 | **<1** | --- | --- |
| Sodium | ppm | ASTM D5185(m) | | **2** | --- | --- |
| Potassium | ppm | ASTM D5185(m) | >20 | **2** | --- | --- |
| Water | % | ASTM D6304* | >0.8 | **0.243** | --- | --- |
| ppm Water | ppm | ASTM D6304* | >8000 | **2431** | --- | --- |

| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Particles >4µm | | ASTM D7647 | >10000 | **15879** | --- | --- |
| Particles >6µm | | ASTM D7647 | >2500 | **2387** | --- | --- |
| Particles >14µm | | ASTM D7647 | >320 | **170** | --- | --- |
| Particles >21µm | | ASTM D7647 | >80 | **46** | --- | --- |
| Particles >38µm | | ASTM D7647 | >20 | **5** | --- | --- |
| Particles >71µm | | ASTM D7647 | >4 | **1** | --- | --- |
| Oil Cleanliness | | ISO 4406 (c) | >20/18/15 | **21/18/15** | --- | --- |

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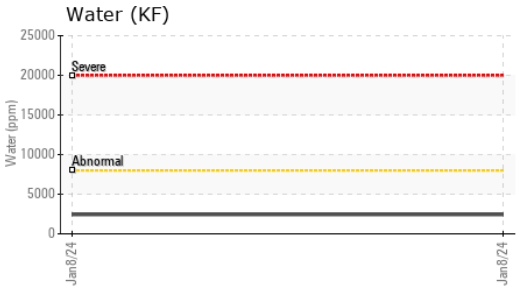
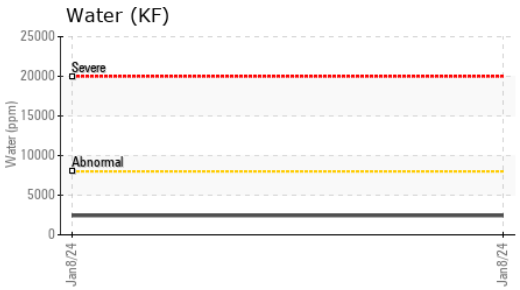
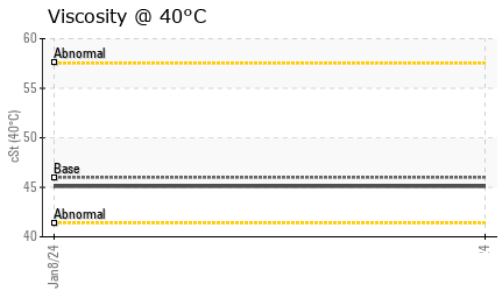


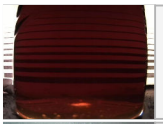



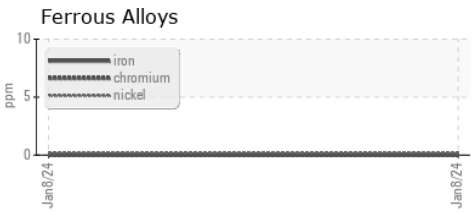

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Acid Number (AN) | mg KOH/g | ASTM D974* | | **0.30** | --- | --- |

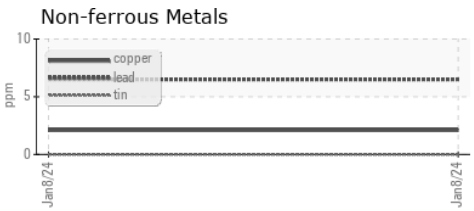
| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| White Metal | scalar | Visual* | NONE | **NONE** | --- | --- |
| Yellow Metal | scalar | Visual* | NONE | **NONE** | --- | --- |
| Precipitate | scalar | Visual* | NONE | **NONE** | --- | --- |
| Silt | scalar | Visual* | NONE | **NONE** | --- | --- |
| Debris | scalar | Visual* | NONE | **VLITE** | --- | --- |
| Sand/Dirt | scalar | Visual* | NONE | **NONE** | --- | --- |
| Appearance | scalar | Visual* | NORML | **NORML** | --- | --- |
| Odor | scalar | Visual* | NORML | **NORML** | --- | --- |
| Emulsified Water | scalar | Visual* | >0.8 | **NEG** | --- | --- |
| Free Water | scalar | Visual* | | **NEG** | --- | --- |

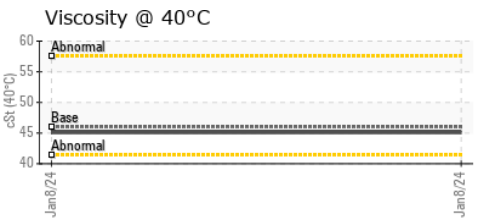
| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D7279(m) | 46 | **45.1** | --- | --- |

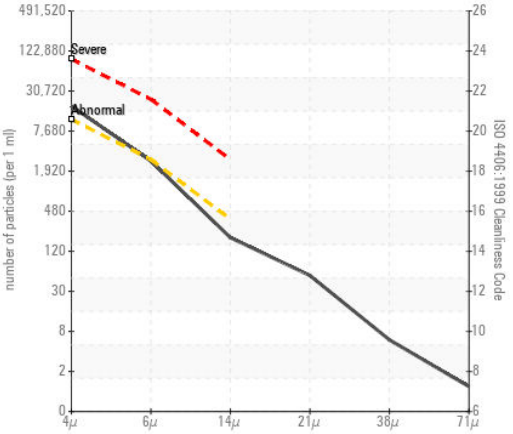
| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | |  | *no image* | *no image* |
| Bottom | | |  | *no image* | *no image* |

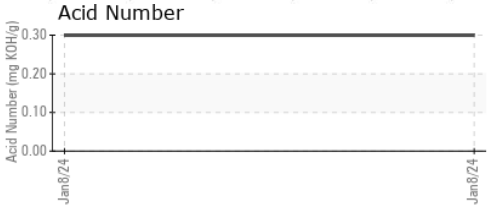
## GRAPHS




ISO 17025:2017 Accredited Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
**Sample No.** : WC **Recieved** : 09 Jan 2024
**Lab Number** : 02607530 **Diagnosed** : 11 Jan 2024
**Unique Number** : 5708616 **Diagnostician** : Kevin Marson
**Test Package** : IND 2 ( Additional Tests: KF, TAN Man )

*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.*

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