



# OIL ANALYSIS REPORT

Sample Rating Trend

**WEAR**

Area  
**Building 17 Powerhouse**  
Machine Id  
**COMPRESSOR 1**

Component  
**Reservoir Compressor**  
Fluid  
**COMPRESSOR OIL (PAG) ISO 46 (--- GAL)**



## DIAGNOSIS

### Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. Please provide more complete information on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### Wear

Copper and lead ppm levels are abnormal.

### Contamination

The water content is negligible. There is no indication of any contamination in the oil.

### Fluid Condition

Viscosity of sample indicates oil is within ISO 100 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC</b>	---	---
Sample Date	Client Info	<b>08 Jan 2024</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>50	<b>3</b>	---	---
Chromium ppm ASTM D5185(m)	>10	<b>0</b>	---	---
Nickel ppm ASTM D5185(m)		<b>&lt;1</b>	---	---
Titanium ppm ASTM D5185(m)		<b>0</b>	---	---
Silver ppm ASTM D5185(m)		<b>0</b>	---	---
Aluminum ppm ASTM D5185(m)	>25	<b>&lt;1</b>	---	---
Lead ppm ASTM D5185(m)	>25	<b>▲ 53</b>	---	---
Copper ppm ASTM D5185(m)	>50	<b>▲ 107</b>	---	---
Tin ppm ASTM D5185(m)	>15	<b>1</b>	---	---
Antimony ppm ASTM D5185(m)		<b>0</b>	---	---
Vanadium ppm ASTM D5185(m)		<b>0</b>	---	---
Beryllium ppm ASTM D5185(m)		<b>0</b>	---	---
Cadmium ppm ASTM D5185(m)		<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185(m)	2	<b>&lt;1</b>	---	---
Barium ppm ASTM D5185(m)	525	<b>656</b>	---	---
Molybdenum ppm ASTM D5185(m)	10	<b>0</b>	---	---
Manganese ppm ASTM D5185(m)		<b>0</b>	---	---
Magnesium ppm ASTM D5185(m)	5	<b>2</b>	---	---
Calcium ppm ASTM D5185(m)	10	<b>5</b>	---	---
Phosphorus ppm ASTM D5185(m)	250	<b>1</b>	---	---
Zinc ppm ASTM D5185(m)	100	<b>17</b>	---	---
Sulfur ppm ASTM D5185(m)	400	<b>189</b>	---	---
Lithium ppm ASTM D5185(m)		<b>&lt;1</b>	---	---

## CONTAMINANTS

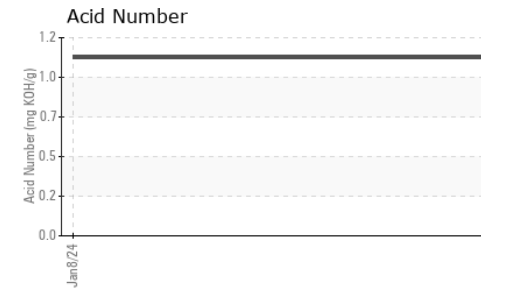
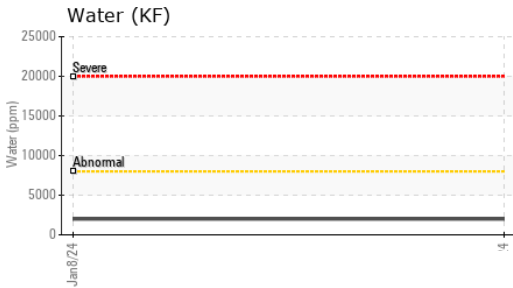
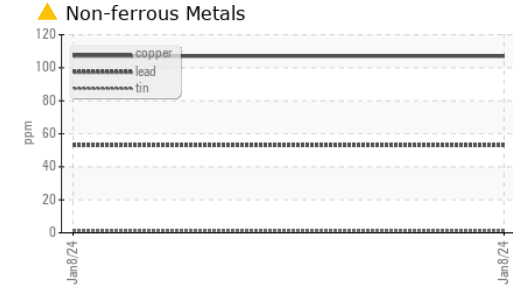
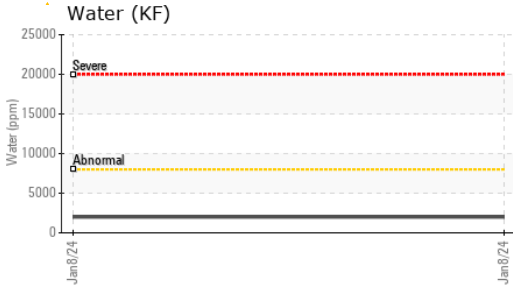
method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>25	<b>1</b>	---	---
Sodium ppm ASTM D5185(m)		<b>10</b>	---	---
Potassium ppm ASTM D5185(m)	>20	<b>5</b>	---	---
Water % ASTM D6304*	>0.8	<b>0.199</b>	---	---
ppm Water ppm ASTM D6304*	>8000	<b>1998</b>	---	---

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>10000	<b>154483</b>	---	---
Particles >6µm ASTM D7647	>2500	<b>33999</b>	---	---
Particles >14µm ASTM D7647	>320	<b>930</b>	---	---
Particles >21µm ASTM D7647	>80	<b>238</b>	---	---
Particles >38µm ASTM D7647	>20	<b>19</b>	---	---
Particles >71µm ASTM D7647	>4	<b>0</b>	---	---
Oil Cleanliness ISO 4406 (c)	>20/18/15	<b>24/22/17</b>	---	---



# OIL ANALYSIS REPORT



## FLUID DEGRADATION

method	limit/base	current	history1	history2		
Acid Number (AN) mg KOH/g	ASTM D974*	<b>1.08</b>	---	---		
VISUAL						
method	limit/base	current	history1	history2		
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>LIGHT</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	Visual*	>0.8	<b>NEG</b>	---	---
Free Water	scalar	Visual*		<b>NEG</b>	---	---

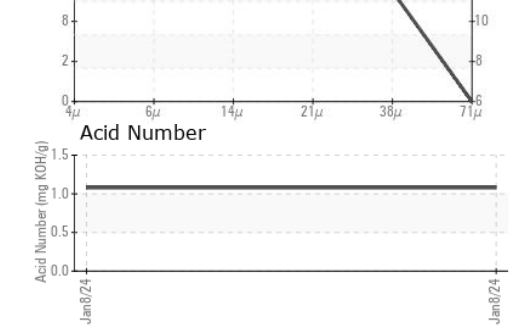
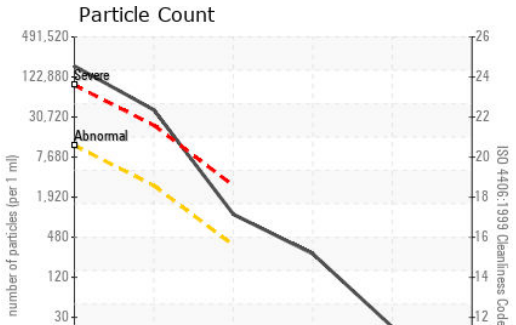
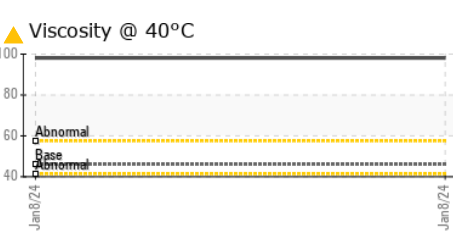
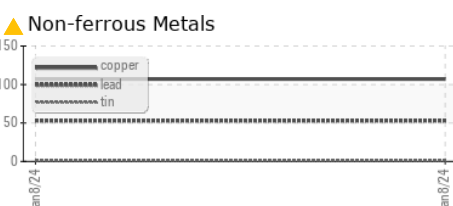
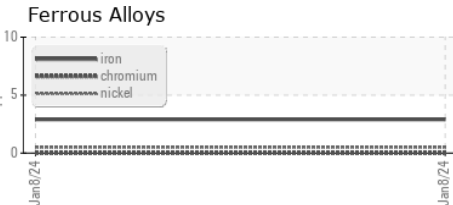
## FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C cSt	ASTM D7279(m)	<b>▲ 98.1</b>	---	---

## SAMPLE IMAGES

method	limit/base	current	history1	history2
Color		<i>no image</i>	<i>no image</i>	<i>no image</i>
Bottom		<i>no image</i>	<i>no image</i>	<i>no image</i>

## GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
 Sample No. : WC  
 Lab Number : **02607527**  
 Unique Number : 5708613  
 Test Package : IND 2 ( Additional Tests: KF )

**HIRAM WALKER & SONS LTD.**  
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 WINDSOR, ON  
 CA N8Y 4S5  
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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.