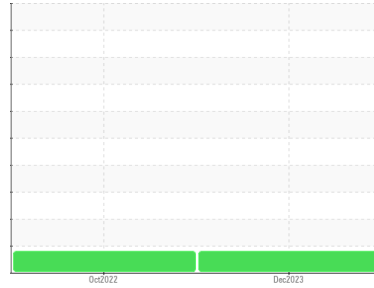




# PROBLEM SUMMARY

Sample Rating Trend



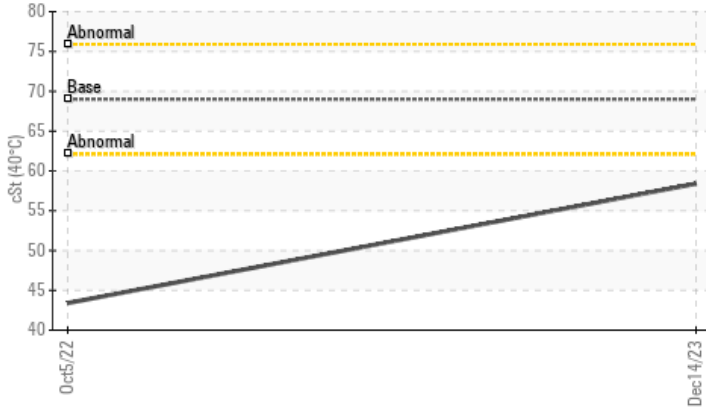
VISCOSITY



Area  
**METRO WEST MALL [4501224671]**  
 Machine Id  
**MYCOM C #1 (S/N 650070)**  
 Component  
**Reciprocating Compressor**  
 Fluid  
**ISEL 4415 68 (--- GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Viscosity @ 40°C



## RECOMMENDATION

The oil is near the end of its useful service life, recommend schedule an oil change. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

## PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	ABNORMAL	---
Barium	ppm	ASTM D5185(m)	▲ <1	▲ 0	---
Visc @ 40°C	cSt	ASTM D7279(m) 69	▲ 58.4	▲ 43.4	---

Customer Id: CIMTOR  
 Sample No.: WC0871343  
 Lab Number: 02603505  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Bill Quesnel CLS,OMA II,MLA-III,LLA-I +1  
 (289)291-4641 x4641  
[Bill.Quesnel@wearcheck.com](mailto:Bill.Quesnel@wearcheck.com)

To change component or sample information:  
 Gloria Gonzalez +1 (289)291-4643 x4643  
[gloria.gonzalez@wearcheck.com](mailto:gloria.gonzalez@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Service/change Fluid	---	---	?	The oil is near the end of it's useful service life, recommend schedule an oil change.
Information Required	---	---	?	Please specify the brand, type, and viscosity of the oil on your next sample.

## HISTORICAL DIAGNOSIS

05 Oct 2022 Diag: Bill Quesnel

### VISCOSITY



The oil is near the end of it's useful service life, recommend schedule an oil change. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. Barium ppm levels are abnormally low. Visc @ 40°C is abnormally low. Viscosity of sample indicates oil is within ISO 46 range, advise investigate. The AN level is acceptable for this fluid.

view report



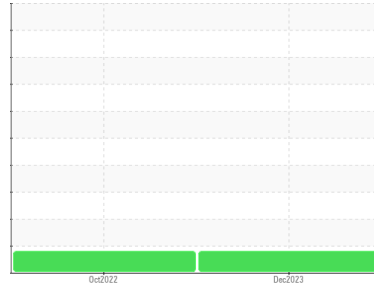


# OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY

Area  
**METRO WEST MALL [4501224671]**  
 Machine Id  
**MYCOM C #1 (S/N 650070)**  
 Component  
**Reciprocating Compressor**  
 Fluid  
**ISEL 4415 68 (--- GAL)**



## DIAGNOSIS

### Recommendation

The oil is near the end of its useful service life, recommend schedule an oil change. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

### Wear

All component wear rates are normal.

### Contamination

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

### Fluid Condition

Barium ppm levels are abnormally low (anti-corrosion additive). Visc @ 40°C is abnormally low. Viscosity of sample indicates oil is within ISO 68 range, advise investigate. The AN level is acceptable for this fluid.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0871343</b>	WC0699329	---
Sample Date	Client Info	<b>14 Dec 2023</b>	05 Oct 2022	---
Machine Age	hrs Client Info	<b>9519</b>	7111	---
Oil Age	hrs Client Info	<b>0</b>	5000	---
Oil Changed	Client Info	<b>Filtered</b>	Changed	---
Sample Status		<b>ABNORMAL</b>	ABNORMAL	---

## WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	<b>0</b>	0	---
Iron	ppm ASTM D5185(m) >50	<b>4</b>	4	---
Chromium	ppm ASTM D5185(m) >10	<b>0</b>	0	---
Nickel	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	---
Titanium	ppm ASTM D5185(m)	<b>0</b>	0	---
Silver	ppm ASTM D5185(m)	<b>&lt;1</b>	0	---
Aluminum	ppm ASTM D5185(m) >25	<b>0</b>	<1	---
Lead	ppm ASTM D5185(m) >25	<b>&lt;1</b>	<1	---
Copper	ppm ASTM D5185(m) >50	<b>&lt;1</b>	0	---
Tin	ppm ASTM D5185(m) >15	<b>0</b>	<1	---
Antimony	ppm ASTM D5185(m)	<b>0</b>	0	---
Vanadium	ppm ASTM D5185(m)	<b>0</b>	0	---
Beryllium	ppm ASTM D5185(m)	<b>0</b>	0	---
Cadmium	ppm ASTM D5185(m)	<b>0</b>	0	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	---
Barium	ppm ASTM D5185(m)	<b>&lt;1</b>	<b>0</b>	---
Molybdenum	ppm ASTM D5185(m)	<b>0</b>	0	---
Manganese	ppm ASTM D5185(m)	<b>0</b>	<1	---
Magnesium	ppm ASTM D5185(m)	<b>0</b>	0	---
Calcium	ppm ASTM D5185(m)	<b>&lt;1</b>	0	---
Phosphorus	ppm ASTM D5185(m)	<b>26</b>	29	---
Zinc	ppm ASTM D5185(m)	<b>1</b>	<1	---
Sulfur	ppm ASTM D5185(m)	<b>65</b>	62	---
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	---

## CONTAMINANTS

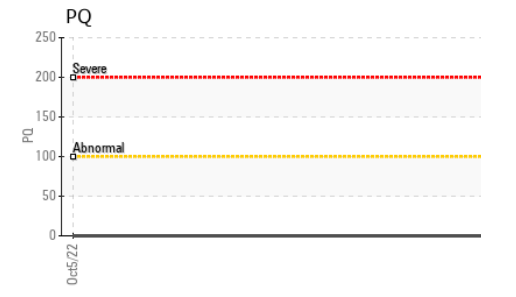
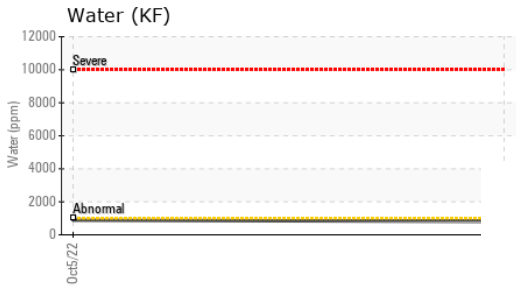
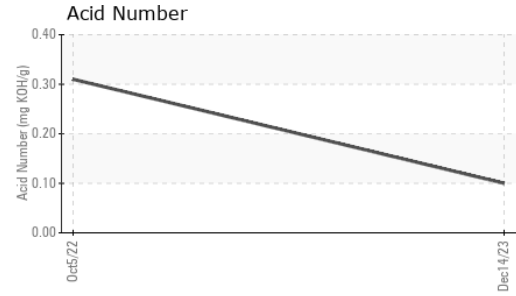
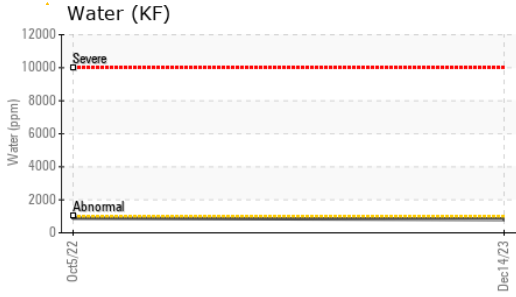
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	<b>2</b>	6	---
Sodium	ppm ASTM D5185(m)	<b>3</b>	2	---
Potassium	ppm ASTM D5185(m) >20	<b>0</b>	<1	---
Water	% ASTM D6304* >0.1	<b>0.080</b>	0.088	---
ppm Water	ppm ASTM D6304* >1000	<b>807</b>	888.4	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974*	<b>0.10</b>	0.31	---



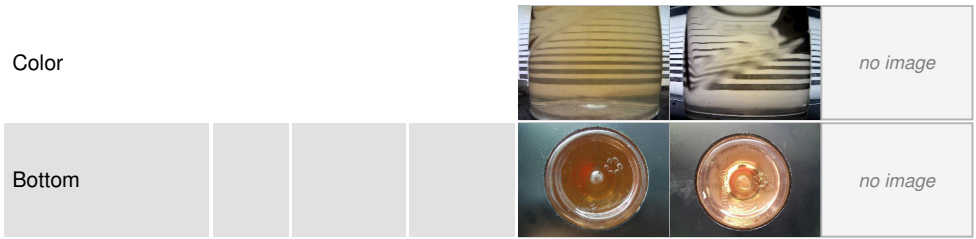
# OIL ANALYSIS REPORT



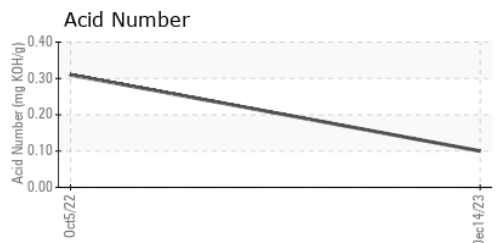
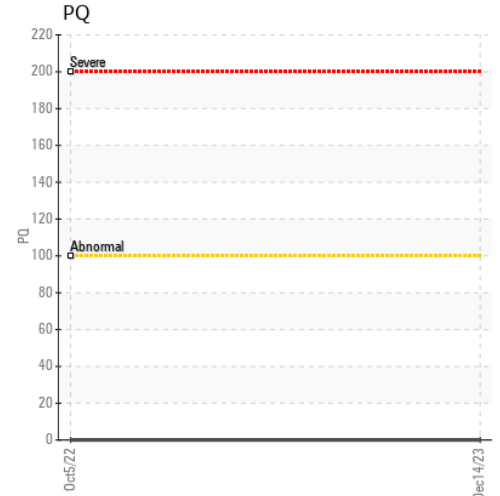
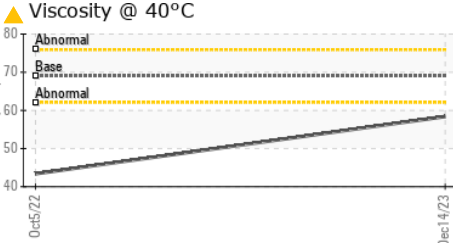
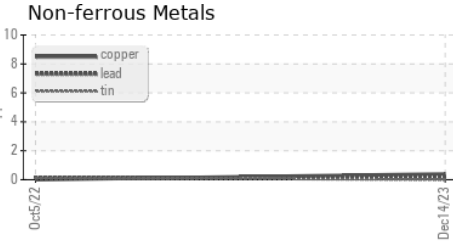
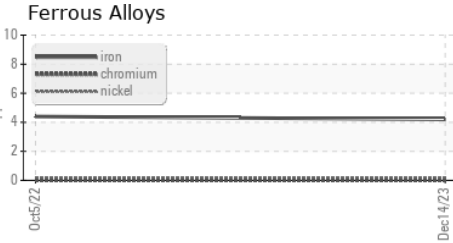
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	VLITE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---
Free Water	scalar	Visual*		NEG	NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	69 ▲ 58.4	▲ 43.4	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
 Sample No. : WC0871343 Recieved : 15 Dec 2023  
 Lab Number : 02603505 Diagnosed : 18 Dec 2023  
 Unique Number : 5696590 Diagnostician : Bill Quesnel  
 Test Package : IND 2 ( Additional Tests: KF )

**CIMCO Refrigeration**  
 1551 Corporate Drive  
 Burlington, ON  
 CA L7L 6M3  
 Contact: DAVID PARISE  
 DPARISE@ToROMONT.COM  
 T: (416)465-7581  
 F: (416)465-8815

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.