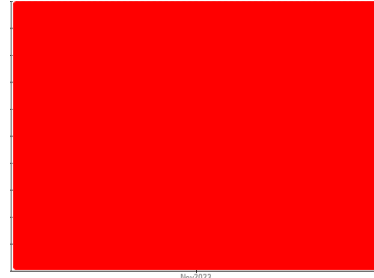


# PROBLEM SUMMARY

Sample Rating Trend

WEAR

Area  
**U of T B.C.I.T. #2 A Master [PR2311300163]**  
 Machine Id  
**MACQUAY STNU010800126(2,1)**  
 Component  
**Chiller**  
 Fluid  
**REFRIGERATION OIL (POE) (--- GAL)**



## COMPONENT CONDITION SUMMARY

No relevant graphs to display

## RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. A service engineer should review the operation of this machine. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185(m)	>8	▲ 11	---	---
Aluminum	ppm	ASTM D5185(m)	>3	● 55	---	---
Tin	ppm	ASTM D5185(m)	>4	● 9	---	---

Customer Id: GTT0000352  
 Sample No.: GTT0001203  
 Lab Number: 02602963  
 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)

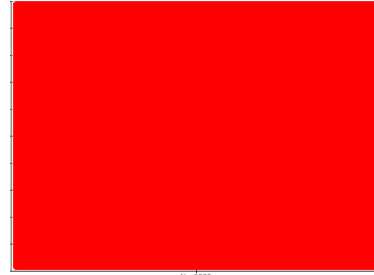
To change component or sample information:  
 Gloria Gonzalez +1 (289)291-4643 x4643  
[gloria.gonzalez@wearcheck.com](mailto:gloria.gonzalez@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS

Area  
**U of T B.C.I.T. #2 A Master [PR2311300163]**  
 Machine Id  
**MACQUAY STNU010800126(2,1)**  
 Component  
**Chiller**  
 Fluid  
**REFRIGERATION OIL (POE) (--- GAL)**



## DIAGNOSIS

### Recommendation

We recommend that you drain the oil from the component if this has not already been done. A service engineer should review the operation of this machine. We recommend an early resample to monitor this condition.

### Wear

Aluminum and tin ppm levels are severe. Iron ppm levels are abnormal. Bearing wear is indicated.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. 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>GTT0001203</b>	---	---
Sample Date	Client Info		<b>27 Nov 2023</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>SEVERE</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >8	<b>▲ 11</b>	---	---
Chromium	ppm	ASTM D5185(m) >2	<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) >2	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185(m) >3	<b>● 55</b>	---	---
Lead	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185(m) >8	<b>&lt;1</b>	---	---
Tin	ppm	ASTM D5185(m) >4	<b>● 9</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) 0	<b>&lt;1</b>	---	---
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m) 0	<b>0</b>	---	---
Manganese	ppm	ASTM D5185(m) 0	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m) 0	<b>2</b>	---	---
Calcium	ppm	ASTM D5185(m) 10	<b>0</b>	---	---
Phosphorus	ppm	ASTM D5185(m) 250	<b>&lt;1</b>	---	---
Zinc	ppm	ASTM D5185(m) 0	<b>4</b>	---	---
Sulfur	ppm	ASTM D5185(m) 400	<b>57</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	<b>7</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>2</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>3</b>	---	---
ppm Water	ppm	ASTM D6304* >200	<b>6</b>	---	---



## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* 0.07	<b>0.04</b>	---	---

# OIL ANALYSIS REPORT

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>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	<b>52.5</b>	---	---

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

## GRAPHS



**Sample No.** : GTT0001203      **Recieved** : 13 Dec 2023  
**Lab Number** : 02602963      **Diagnosed** : 15 Dec 2023  
**Unique Number** : 5696048      **Diagnostician** : Bill Quesnel  
**Test Package** : IND 2 ( Additional Tests: KV40 )

*To discuss this sample report, contact Customer Service at 1-905-847-9300 Ext 26.*

*Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.*

*Damages: Seller shall in no event be liable for special, incidental, or consequential damages, of a commercial nature, resulting from any cause.*

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