



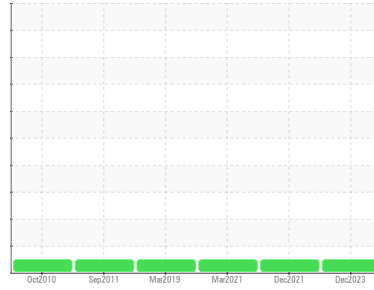
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**Civic Hospital Ch#3**  
Machine Id  
**CARRIER 0310Q19508**  
Component  
**Chiller**  
Fluid  
**ICI EMKARATE RL 68H (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### 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

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>GTT0001351</b>	GTT984	GTT985
Sample Date	Client Info	<b>27 Dec 2023</b>	07 Dec 2021	01 Mar 2021
Machine Age	hrs Client Info	<b>0</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
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)	>8	<b>1</b>	<1	<1
Chromium ppm ASTM D5185(m)	>2	<b>0</b>	<1	<1
Nickel ppm ASTM D5185(m)		<b>0</b>	---	---
Titanium ppm ASTM D5185(m)		<b>0</b>	---	---
Silver ppm ASTM D5185(m)	>2	<b>0</b>	---	---
Aluminum ppm ASTM D5185(m)	>3	<b>&lt;1</b>	<1	<1
Lead ppm ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Copper ppm ASTM D5185(m)	>8	<b>6</b>	1	<1
Tin ppm ASTM D5185(m)	>4	<b>0</b>	<1	<1
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)		<b>0</b>	---	---
Magnesium ppm ASTM D5185(m)	0	<b>&lt;1</b>	---	---
Calcium ppm ASTM D5185(m)	0	<b>&lt;1</b>	---	---
Phosphorus ppm ASTM D5185(m)	1900	<b>1848</b>	---	---
Zinc ppm ASTM D5185(m)	0	<b>5</b>	<1	<1
Sulfur ppm ASTM D5185(m)	25	<b>35</b>	---	---
Lithium ppm ASTM D5185(m)		<b>&lt;1</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>15	<b>50</b>	---	---
Sodium ppm ASTM D5185(m)		<b>&lt;1</b>	---	---
Potassium ppm ASTM D5185(m)	>20	<b>0</b>	---	---
ppm Water ppm ASTM D6304*	>200	<b>107</b>	193	145

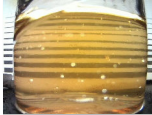
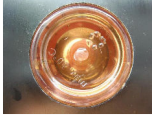
## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D974*	0.02	<b>0.09</b>	0.019	0.011

# 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)	72.3	<b>60.1</b>	---	---

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

## GRAPHS



**Sample No.** : GTT0001351      **Recieved** : 28 Dec 2023  
**Lab Number** : 02605607      **Diagnosed** : 05 Jan 2024  
**Unique Number** : 5698692      **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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