

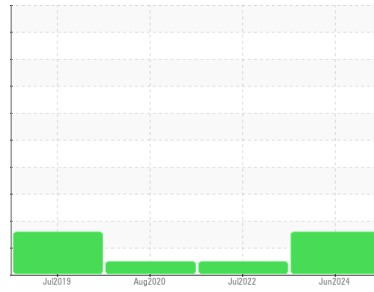


# OIL ANALYSIS REPORT



Area  
**UQTR Circ 1 [GTT224-474 1-1335035]**  
 Machine Id  
**YORK 2KAM022171(1)**  
 Component  
**Chiller**  
 Fluid  
**COMP OIL (POE) ISO 220 (--- GAL)**

Sample Rating Trend



WATER



## DIAGNOSIS

### Recommendation

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 elevated moisture content is associated with POE oils which are hygroscopic, and can absorb moisture from sampling and processing.

### 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>GTT0001167</b>	GTT10567	GTT10568
Sample Date	Client Info	<b>19 Jun 2024</b>	27 Jul 2022	17 Aug 2020
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>ATTENTION</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>&lt;1</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>0</b>	<1	<1
Copper ppm ASTM D5185(m)	>8	<b>&lt;1</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)	5	<b>1</b>	---	---
Barium ppm ASTM D5185(m)	5	<b>0</b>	---	---
Molybdenum ppm ASTM D5185(m)	5	<b>0</b>	---	---
Manganese ppm ASTM D5185(m)		<b>0</b>	---	---
Magnesium ppm ASTM D5185(m)	5	<b>0</b>	---	---
Calcium ppm ASTM D5185(m)	5	<b>&lt;1</b>	---	---
Phosphorus ppm ASTM D5185(m)	400	<b>1</b>	---	---
Zinc ppm ASTM D5185(m)	5	<b>&lt;1</b>	<1	<1
Sulfur ppm ASTM D5185(m)	100	<b>20</b>	---	---
Lithium ppm ASTM D5185(m)		<b>&lt;1</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>15	<b>11</b>	---	---
Sodium ppm ASTM D5185(m)		<b>0</b>	---	---
Potassium ppm ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
ppm Water ppm ASTM D6304*	>100	<b>310</b>	191	255

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D974*	0.40	<b>0.06</b>	0.083	0.078

# OIL ANALYSIS REPORT

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---
Yellow Metal	scalar	Visual*	NONE	<b>VLITE</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)	220	<b>86.7</b>	---

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

## GRAPHS



**Sample No.** : GTT0001167      **Received** : 02 Jul 2024  
**Lab Number** : 02645076      **Tested** : 05 Jul 2024  
**Unique Number** : 5802615      **Diagnosed** : 05 Jul 2024 - Bill Quesnel  
**Test Package** : IND 2 ( Additional Tests: KF, TAN Man )

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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