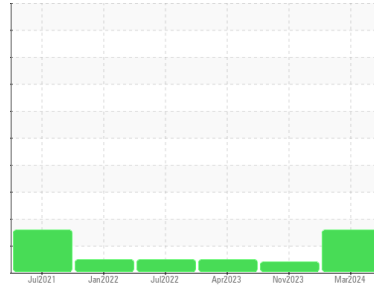


# OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area  
**CIBC 81 Bay St Ch#3 [GTT224-342]**  
 Machine Id  
**YORK SMFM244500**  
 Component  
**Chiller**  
 Fluid  
**YORK TYPE K (--- GAL)**

## DIAGNOSIS

### Recommendation

If not recently done change any filter driers to reduce moisture level. We recommend an early resample to monitor this condition.

### 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>GTT0000677</b>	GTT0000824	GTT68425
Sample Date	Client Info		<b>15 Mar 2024</b>	07 Nov 2023	03 Apr 2023
Machine Age	hrs	Client Info	<b>0</b>	0	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ATTENTION</b>	ABNORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >8	<b>1</b>	2	<1
Chromium	ppm	ASTM D5185(m) >2	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Silver	ppm	ASTM D5185(m) >2	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185(m) >3	<b>0</b>	0	<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>	0	<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) 0	<b>&lt;1</b>	<1	---
Barium	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	---
Molybdenum	ppm	ASTM D5185(m) 0	<b>0</b>	0	---
Manganese	ppm	ASTM D5185(m) 0	<b>0</b>	0	---
Magnesium	ppm	ASTM D5185(m) 0	<b>0</b>	0	---
Calcium	ppm	ASTM D5185(m) 0	<b>0</b>	<1	---
Phosphorus	ppm	ASTM D5185(m) 5	<b>&lt;1</b>	0	---
Zinc	ppm	ASTM D5185(m) 0	<b>1</b>	<1	<1
Sulfur	ppm	ASTM D5185(m) 10	<b>14</b>	11	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	3	---
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	2	---
Potassium	ppm	ASTM D5185(m) >20	<b>1</b>	1	---
ppm Water	ppm	ASTM D6304* >300	<b>344</b>	299	222





## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* 0.03	<b>0.02</b>	0.06	0.016

# OIL ANALYSIS REPORT

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE ---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE ---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE ---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE ---
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE ---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE ---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML ---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML ---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	32.0	<b>34.8</b>	▲ 1.9 ---

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

## GRAPHS



**Sample No.** : GTT0000677  
**Lab Number** : 02625898  
**Unique Number** : 5759030  
**Test Package** : IND 2 ( Additional Tests: KV40 )

**Received** : 01 Apr 2024  
**Tested** : 04 Apr 2024  
**Diagnosed** : 04 Apr 2024 - Bill Quesnel

**Johnson Controls - Markham**  
 Accounts Payable A-33, P.O. Box 2012  
 Milwaukee, WI  
 US 532012012  
 Contact: Service Manager

*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.*

T:  
F: