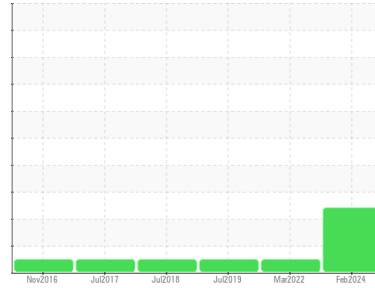


# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Area  
**[GTT225-353]**  
 Machine Id  
**CARRIER 0301Q65025**  
 Component  
**Chiller**  
 Fluid  
**COMP OIL (POE) ISO 68 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

If not recently done change any filter driers to reduce moisture level. The operation of this unit should be reviewed closely by a service engineer. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

### ▲ Wear

Tin ppm levels are abnormal. The tin reading shows moderate wear occurring on the compressor bearings or motor bearings.

### ● 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.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GTT0001985</b>	GTT874	GTT875
Sample Date	Client Info		<b>19 Feb 2024</b>	15 Mar 2022	10 Jul 2019
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>ABNORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >8	<1	<1	<1
Chromium	ppm	ASTM D5185(m) >2	0	<1	<1
Nickel	ppm	ASTM D5185(m)	0	---	---
Titanium	ppm	ASTM D5185(m)	0	---	---
Silver	ppm	ASTM D5185(m) >2	0	---	---
Aluminum	ppm	ASTM D5185(m) >3	0	<1	<1
Lead	ppm	ASTM D5185(m) >2	0	<1	<1
Copper	ppm	ASTM D5185(m) >8	<1	<1	<1
Tin	ppm	ASTM D5185(m) >4	▲ 6	<1	2
Antimony	ppm	ASTM D5185(m)	0	---	---
Vanadium	ppm	ASTM D5185(m)	0	---	---
Beryllium	ppm	ASTM D5185(m)	0	---	---
Cadmium	ppm	ASTM D5185(m)	0	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 5	<1	---	---
Barium	ppm	ASTM D5185(m) 5	0	---	---
Molybdenum	ppm	ASTM D5185(m) 5	0	---	---
Manganese	ppm	ASTM D5185(m)	0	---	---
Magnesium	ppm	ASTM D5185(m) 5	0	---	---
Calcium	ppm	ASTM D5185(m) 5	0	---	---
Phosphorus	ppm	ASTM D5185(m) 400	<b>424</b>	---	---
Zinc	ppm	ASTM D5185(m) 5	1	<1	<1
Sulfur	ppm	ASTM D5185(m) 100	3	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	4	---	---
Sodium	ppm	ASTM D5185(m)	0	---	---
Potassium	ppm	ASTM D5185(m) >20	<1	---	---
ppm Water	ppm	ASTM D6304* >100	● 300	79	147



## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* 0.40	<b>0.02</b>	0.073	0.029

# 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)	68	<b>64.1</b>	---	---

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

## GRAPHS



**Sample No.** : GTT0001985  
**Lab Number** : 02625893  
**Unique Number** : 5759025  
**Test Package** : IND 2 ( Additional Tests: KV40 )  
**Received** : 01 Apr 2024  
**Tested** : 04 Apr 2024  
**Diagnosed** : 04 Apr 2024 - Bill Quesnel

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.

**Ainsworth**  
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 Gagon Lachine, QC  
 CA H8T 2M6  
 Contact: Service Manager

T:  
F: