



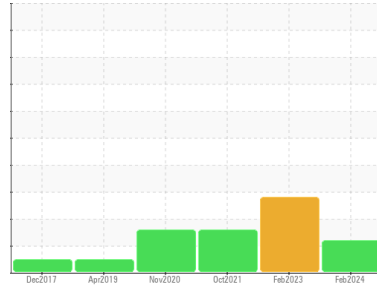
# OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION



Area  
**[818042]**  
 Machine Id  
**TRANE U14L00694(2)**  
 Component  
**Chiller**  
 Fluid  
**TRANE 0048 (--- GAL)**



## DIAGNOSIS

- Recommendation**  
Resample in 3 months to monitor this situation.
- 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 above the recommended limit.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>GTT0002135</b>	GTT79536	GTT79537
Sample Date	Client Info	<b>27 Feb 2024</b>	14 Feb 2023	14 Oct 2021
Machine Age	hrs	<b>0</b>	---	---
Oil Age	hrs	<b>0</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ABNORMAL</b>	ABNORMAL	ATTENTION

## 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>&lt;1</b>	<1	<1
Copper	ppm ASTM D5185(m) >8	<b>2</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) 1	<b>2</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>&lt;1</b>	---	---
Calcium	ppm ASTM D5185(m) 0	<b>0</b>	---	---
Phosphorus	ppm ASTM D5185(m) 5	<b>0</b>	---	---
Zinc	ppm ASTM D5185(m) 0	<b>31</b>	10	3
Sulfur	ppm ASTM D5185(m) 10	<b>0</b>	---	---
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >15	<b>6</b>	---	---
Sodium	ppm ASTM D5185(m)	<b>&lt;1</b>	---	---
Potassium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	---	---
ppm Water	ppm ASTM D6304* >300	<b>176</b>	535	413


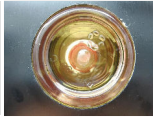
## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974* 0.09	<b>0.16</b>	0.213	0.239

# 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>68.7</b>	---

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

## GRAPHS



**Sample No.** : GTT0002135  
**Lab Number** : 02620998  
**Unique Number** : 5746117  
**Test Package** : IND 2 ( Additional Tests: KV40 )

**Received** : 08 Mar 2024  
**Tested** : 11 Mar 2024  
**Diagnosed** : 11 Mar 2024 - Bill Quesnel

**Ainsworth Inc.**  
 1375 Fran-Carrell, bureau 16 Quebec  
 Quebec, QC  
 CA G1N 2E7  
 Contact: Service Manager  
 invoices@ainsworth.com

*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.*