

OIL ANALYSIS REPORT

Sample Rating Trend

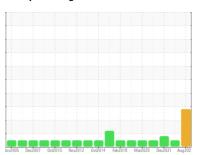
DEGRADATION



49 Place D`Armes Ch#1 **CARRIER 4897J56841**

Chiller

ICI EMKARATE RL 68H (--- GAL)





DIAGNOSIS

Recommendation

The service history of this unit should be reviewed by a service engineer because of the high tin and lead readings. We recommend an early resample to monitor this condition.

Wear

Tin and lead ppm levels are abnormal. The lead and tin levels indicate bearing wear.

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. The oil was observed to be quite dark and acidic.

lov2005 Dec2007 Occ2010 Nov2012 Occ2014 Feb:2018 Mar2020 Dec2021 Aug202									
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GTT0001341	GTT15646	GTT15647			
Sample Date		Client Info		01 Aug 2023	05 Apr 2023	07 Dec 2021			
Machine Age	hrs	Client Info		0					
Oil Age	hrs	Client Info		0					
Oil Changed		Client Info		N/A	N/A	N/A			
Sample Status				ABNORMAL	NORMAL	ABNORMAL			
WEAR METALS		method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185(m)	>8	4	<1	3			
Chromium	ppm	ASTM D5185(m)	>2	0	<1	<1			
Nickel	ppm	ASTM D5185(m)		<1					
Titanium	ppm	ASTM D5185(m)		0					
Silver	ppm	ASTM D5185(m)	>2	0					
Aluminum	ppm	ASTM D5185(m)	>3	<1	<1	<1			
Lead	ppm	ASTM D5185(m)	>2	<u>^</u> 2	<1	<1			
Copper	ppm	ASTM D5185(m)	>8	<1	<1	<1			
Tin	ppm	ASTM D5185(m)	>4	<u>^</u> 23	1	<u>^</u> 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)	0	<1					
Barium	ppm	ASTM D5185(m)	0	0					
Molybdenum	ppm	ASTM D5185(m)	0	0					
Manganese	ppm	ASTM D5185(m)		0					
Magnesium	ppm	ASTM D5185(m)	0	<1					
Calcium	ppm	ASTM D5185(m)	0	0					
Phosphorus	ppm	ASTM D5185(m)	1900	1674					
Zinc	ppm	ASTM D5185(m)	0	17	10	10			
Sulfur	ppm	ASTM D5185(m)	25	10					
Lithium	ppm	ASTM D5185(m)		<1					
CONTAMINANTS	3	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185(m)	>15	15					
Sodium	ppm	ASTM D5185(m)		<1					
Potassium	ppm	ASTM D5185(m)	>20	0					
ppm Water	ppm	ASTM D6304*	>100	48	123	99			
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2			
Acid Number (AN)	mg KOH/g	ASTM D974*	0.02	△ 0.11	0.047	0.056			



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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	72.3	54.2		
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					no image	no image
D-44					no image	no image
Bottom						



 Sample No.
 : GTT0001341
 Recieved
 : 28 Dec 2023

 Lab Number
 : 02605619
 Diagnosed
 : 05 Jan 2024

 Unique Number
 : 5698704
 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.

Carrier Commerical Service

C/O Conduent Div of Carrier Canada, 1-2740 Matheson Blvd

Mississauga, ON CA L4W 4X3

Contact: Brian Raymundo

Brian.Raymundo@carrier.com

d at external lab. T: al nature, resulting from any cause. F:

Contact/Location: Brian Raymundo - GTT0000224