

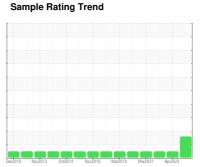
OIL ANALYSIS REPORT



Carleton Univ. Library #2 **CARRIER 0909Q18796**

Component Chiller

ICI EMKARATE RL 68H (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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.

Ове2010 Неи2012 Осе2014 Nev2016 Mar2011 Миг2021 Арг2023								
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GTT0001427	GTT2820	GTT2821		
Sample Date		Client Info		15 Sep 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				ATTENTION	NORMAL	NORMAL		
WEAR METALS		method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185(m)	>8	0	<1	<1		
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	<1	<1	<1		
Copper	ppm	ASTM D5185(m)	>8	<1	<1	<1		
Tin	ppm	ASTM D5185(m)	>4	0	<1	<1		
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	0				
Calcium	ppm	ASTM D5185(m)	0	0				
Phosphorus	ppm	ASTM D5185(m)	1900	1066				
Zinc	ppm	ASTM D5185(m)	0	<1	<1	<1		
Sulfur	ppm	ASTM D5185(m)	25	11				
Lithium	ppm	ASTM D5185(m)		<1				
CONTAMINANTS	;	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	>15	11				
Sodium	ppm	ASTM D5185(m)		0				
Potassium	ppm	ASTM D5185(m)	>20	<1				
ppm Water	ppm	ASTM D6304*	>200	272	236	156		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2		
Acid Number (AN)	mg KOH/g	ASTM D974*	0.02	0.06	0.040	0.055		



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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	67.4		
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image



Sample No.: GTT0001427Recieved: 03 Jan 2024Lab Number: 02606356Diagnosed: 09 Jan 2024Unique Number: 5707442Diagnostician: 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

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nature, resulting from any cause.