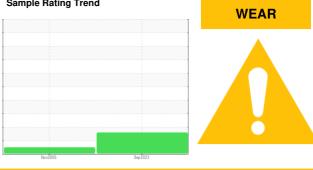


OIL ANALYSIS REPORT

Sample Rating Trend



Carlton Univ St. Pats Ch#1 **CARRIER 2098558103** Component Chiller



ICI EMKARATE RL 68H (--- GAL)

DIAGNOSIS	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
A Recommendation	Sample Number		Client Info		GTT0001429	GTT7976	
Check the system for the cause of high iron content, such as cylinder wear, valve wear or system residues. The operation of this unit should be monitored by a service engineer. We recommend an early resample to monitor this condition.	Sample Date		Client Info		14 Sep 2023	07 Nov 2005	
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A	N/A	
	Sample Status				ABNORMAL	NORMAL	
▲ Wear	WEAR METALS		method	limit/base	current	history1	history2
Iron and tin ppm levels are abnormal. Bearing wear is indicated.	Iron	ppm	ASTM D5185(m)	>8	1 1	<1	
	Chromium	ppm	ASTM D5185(m)	>2	0	<1	
Contamination	Nickel	ppm	ASTM D5185(m)		0		
There is no indication of any contamination in the oil.	Titanium	ppm	ASTM D5185(m)		0		
	Silver	ppm	ASTM D5185(m)	>2	0		
Fluid Condition The AN level is acceptable for this fluid.	Aluminum	ppm	ASTM D5185(m)	>3	<1	<1	
	Lead	ppm	ASTM D5185(m)	>2	1	<1	
	Copper	ppm	ASTM D5185(m)	>8	2	<1	
	Tin	ppm	ASTM D5185(m)	>4	<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		
	Phosphorus	ppm	ASTM D5185(m)		1980		
	Zinc	ppm	ASTM D5185(m)	0	3	2	
	Sulfur	ppm	ASTM D5185(m)	25	0		
	Lithium	ppm	ASTM D5185(m)		<1		
	CONTAMINANTS	6	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185(m)	>15	14		
	Sodium	ppm	ASTM D5185(m)		0		
	Potassium	ppm	ASTM D5185(m)	>20	<1		
	ppm Water	ppm	ASTM D6304*	>200	96	34	
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D974*	0.02	0.04	0.101	



OIL ANALYSIS REPORT

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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	72.3	64.3		
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image
GRAPHS			_			



Sample No. : GTT0001429 : 03 Jan 2024 . Lab Number : 02606352 Diagnosed : 09 Jan 2024 Unique Number : 5707438 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.

Recieved

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 T: F:

Contact/Location: Brian Raymundo - GTT0000224