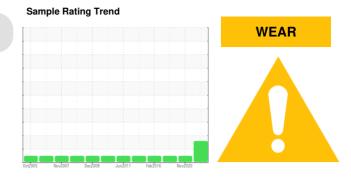


OIL ANALYSIS REPORT

GM Oshawa CUC Plant Ch#3 [GTT224-483 1-1PBPR8V] **TRANE L04F02790** Componer Chiller



Fluid TRANE 0022 (--- GAL)

DIAGNOSIS

Recommendation

The operation of this unit should be reviewed closely by a service engineer. We recommend an early resample to monitor this condition.

Area

A Wear

Iron and tin ppm levels are abnormal. Motor bearing wear is occurring.

Contamination

The water content is negligible. There is no indication of any contamination in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GTT0002951	GTT33914	GTT33916
Sample Date		Client Info		18 Jun 2024	30 Nov 2020	14 May 2018
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	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>8	<u> </u>	3	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	0	<1	<1
Copper	ppm	ASTM D5185(m)	>8	2	<1	<1
Tin	ppm	ASTM D5185(m)	>4	<u> </u>	<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	0		
Magnesium	ppm	ASTM D5185(m)	0	0		
Calcium	ppm	ASTM D5185(m)	0	0		
Phosphorus	ppm	ASTM D5185(m)	35	25		
Zinc	ppm	ASTM D5185(m)	0	2	2	4
Sulfur	ppm	ASTM D5185(m)	30	42		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	3		
Sodium	ppm	ASTM D5185(m)		0		
Potassium	ppm	ASTM D5185(m)	>20	0		
ppm Water	ppm	ASTM D6304*	>50	5	20	7
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.05	0.04	0.415	0.128



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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	47	38.5		
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image
GRAPHS						



Lab Number : 02647470 Tested : 16 Jul 2024 Milwaukee, WI : 16 Jul 2024 - Bill Quesnel Unique Number : 5813022 Diagnosed US 532012012 Test Package : IND 2 (Additional Tests: KF, TAN Man) Contact: Service Manager 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.

: 11 Jul 2024

Received

Report Id: GTT0000206 [WCAMIS] 02647470 (Generated: 07/16/2024 14:57:09) Rev: 1

Contact/Location: Service Manager - GTT0000206 Page 2 of 2

Johnson Controls - Markham

T:

F:

Accounts Payable A-33, P.O. Box 2012