

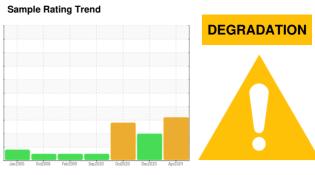




[GTT224-363] **TRANE L00D02016**

Componer Chiller

TRANE 0022 (--- GAL)



DIAGNOSIS

Recommendation

The acid number (AN) indicates that your fluid has reached the end of its useful life, please proceed with a complete oil change. Check for indications of excessive refrigerant charge such as bubbles present in the sight glass. The operation of this unit should be reviewed closely by a service engineer. We recommend an early resample to monitor this condition.

Wear

Iron and tin ppm levels are abnormal. Motor bearing wear is occurring. The zinc reading shows corrosion damage occurring on the zinc galvanized spray eliminator screen which is located above the evaporator tube bundle. The high metal levels indicate corrosion in the system.

Contamination

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

Fluid Condition

Acid Number (AN) is abnormally high. Zinc ppm levels are abnormally high. The AN level is above the recommended limit. The oil is no longer serviceable.

SAMPLE INFORM	MATION	mathad	limit/base	ourromt.	hiotomyt	hiotom ()
	IATION	method	iimiybase	current	history1	history2
Sample Number		Client Info		GTT0001561	GTT33022	GTT33023
Sample Date		Client Info		02 Apr 2024	07 Dec 2020	29 Oct 2020
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	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>8	<u> </u>	<u> </u>	<u> </u>
Chromium	ppm	ASTM D5185(m)	>2	0	<1	<1
Nickel	ppm	ASTM D5185(m)		0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>3	0	<1	<1
Lead	ppm	ASTM D5185(m)	>2	0	<1	<1
Copper	ppm	ASTM D5185(m)	>8	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>4	<u> </u>	<1	<u> 5</u>
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	<1		
Calcium	ppm	ASTM D5185(m)	0	0		
Phosphorus	ppm	ASTM D5185(m)	35	<1		
Zinc	ppm	ASTM D5185(m)	0	<u> </u>	5	10
Sulfur	ppm	ASTM D5185(m)	30	5		
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	<10	25	27
FLUID DEGRADA	TION	method	limit/base	current	history1	history2



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	54.7		
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image
GRAPHS						



Sample No. : GTT0001561 Received : 05 Apr 2024 Lab Number : 02627147 Tested : 10 Apr 2024 Unique Number : 5760279 Diagnosed : 10 Apr 2024 - 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.

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