

OIL ANALYSIS REPORT

Sample Rating Trend





[GTT224-328] Machine Id TRANE L5M-20646

Component **Chiller** Fluid

TRANE 0022 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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. The condition of the oil is suitable for further service.

Nov2005 Gc2006 Feb2012 Nov2012 Occ2013 Aug2014 Sep2015 Nov2016 Jan2018 Feb2024									
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GTT0002225	GTT40209	GTT40210			
Sample Date		Client Info		02 Feb 2024	11 Jan 2018	17 Nov 2016			
Machine Age	hrs	Client Info		0					
Oil Age	hrs	Client Info		0					
Oil Changed		Client Info		N/A	N/A	N/A			
Sample Status				NORMAL	NORMAL	NORMAL			
WEAR METALS		method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185(m)	>8	0	<1	4			
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	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	0					
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	0					
Zinc	ppm	ASTM D5185(m)	0	<1	<1	<1			
Sulfur	ppm	ASTM D5185(m)	30	0					
Lithium	ppm	ASTM D5185(m)		<1					
CONTAMINANTS	;	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185(m)	>15	<1					
Sodium	ppm	ASTM D5185(m)		0					
Potassium	ppm	ASTM D5185(m)	>20	0					
ppm Water	ppm	ASTM D6304*	>50	<10	6	8			
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2			



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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 PROPERT	TES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	47	29.5		
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image



 Sample No.
 : GTT0002225
 Received
 : 18 Mar 2024

 Lab Number
 : 02622912
 Tested
 : 20 Mar 2024

 Unique Number
 : 5748031
 Diagraphic
 : 20 Mar 2024

Unique Number : 5748031 Diagnosed : 20 Mar 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.

Smith & Long Limited

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Contact: Service Manager

T:

F: