

OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION



Area OFRI ME7 [4851446] Machine Id TRANE L89G02591 Component

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. We recommend an early resample to monitor this condition.

🔺 Wear

Iron ppm levels are abnormal. Oil pump wear is indicated. Copper ppm levels are noted. The elevated copper reading suggests the effects of oil migration through the evaporator (oil loss from the compressor) possibly occurring during intervals of operation at low cooling load conditions.

Contamination

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

Fluid Condition

The AN level is above the recommended limit. The oil is no longer serviceable.

SAMPLE INFORM		method	limit/base	current	history1	history2
		Client Info		GTT0002132	GTT53259	GTT53260
Sample Number Sample Date		Client Info		27 Feb 2024	14 Feb 2022	10 Apr 2015
Machine Age	hrs	Client Info		0	14 Feb 2022	10 Apr 2015
Oil Age	hrs	Client Info		0		
Oil Changed	1115	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	<mark>/</mark> 18	<1	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	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>8	1 6	<1	<1
Tin	ppm	ASTM D5185(m)	>4	<1	<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	<1		
Phosphorus	ppm	ASTM D5185(m)	35	0		
7						
Zinc	ppm	ASTM D5185(m)	0	14	<1	<1
Sulfur	ppm ppm	ASTM D5185(m) ASTM D5185(m)	0 30	14 0	<1	<1
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Sulfur	ppm ppm	ASTM D5185(m)	•	0		
Sulfur Lithium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	30	0 <1		
Sulfur Lithium CONTAMINANTS	ppm ppm	ASTM D5185(m) ASTM D5185(m) method	30 limit/base	0 <1 current	 history1	 history2
Sulfur Lithium CONTAMINANTS Silicon	ppm ppm	ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m)	30 limit/base	0 <1 current 100	 history1	history2
Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m)	30 limit/base >15	0 <1 current 100 2	history1	 history2
Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium ppm Water	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D6304*	30 limit/base >15 >20 >50	0 <1 current 100 2 1 14	 history1 12	 history2 30
Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	30 limit/base >15 >20	0 <1 current 100 2 1	 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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	47	48.8		
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image
GRAPHS						



Sample No. : GTT0002132 Received : 08 Mar 2024 1510 Old Falconbridge Road Lab Number : 02621018 Tested : 11 Mar 2024 Unique Number : 5746137 Diagnosed : 11 Mar 2024 - Bill Quesnel Test Package : IND 2 (Additional Tests: KV40) Contact: Service Manager To discuss this sample report, contact Customer Service at 1-905-847-9300 Ext 26. invoices@ainsworth.com Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (705)971-4097 Damages: Seller shall in no event be liable for special, incidental, or consequential damages, of a commercial nature, resulting from any cause.

Contact/Location: Service Manager - GTT0000985

F:

Ainsworth

Sudbury, ON

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