

OIL ANALYSIS REPORT

Sample Rating Trend



Area [GTT224-339] **CARRIER Q64360** Component

DEGRADATION SAMPLE INFORMATION method limit/base current history1 history2

ICI EMKARATE RL 68H (--- GAL)

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

Tin ppm levels are abnormal. The tin reading shows moderate wear occurring on the compressor bearings or motor bearings.

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 Number		Client Info		GTT0001056	GTT58893	GTT58894
Sample Date		Client Info		15 Mar 2024	13 May 2022	09 Apr 2021
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	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>8	4	1	<1
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	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>2	0	<1	<1
Copper	ppm	ASTM D5185(m)	>8	<1	3	1
Tin	ppm	ASTM D5185(m)	>4	1 3	<u> </u>	<1
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	maa	ASTM D5185(m)		0		
	1.1			U		
ADDITIVES	le le	method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	Method ASTM D5185(m)	limit/base	current 0	history1	history2
ADDITIVES Boron Barium	ppm ppm	Method ASTM D5185(m) ASTM D5185(m)	limit/base 0 0	0 current 0 0	history1 	history2
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base 0 0 0	Current 0 0 0	 history1 	history2
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base 0 0 0	Current 0 0 0 0 0	history1	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base 0 0 0 0	0 0 0 0 0 0 <1	history1	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base 0 0 0 0 0 0	0 0 0 0 0 <1 0	history1	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base 0 0 0 0 0 0 1900	0 0 0 0 0 <1 0 1824	history1	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base 0 0 0 0 0 0 1900 0	0 0 0 0 0 <1 0 1824 2	history1 1 1 1 1	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base 0 0 0 0 0 1900 0 25	0 0 0 0 0 <1 0 1824 2 1	history1 1 1 1	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base 0 0 0 0 0 1900 0 25	0 0 0 0 0 <1 0 1824 2 1 1 <1	history1 1	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base 0 0 0 0 0 1900 0 25 1 1900	Current 0 0 0 0 0 0 1 0 1 1 0 1 0 1 0 1 0 1 0	history1 1 1 history1	history2 <1 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base 0 0 0 0 0 1900 0 25 25 Iimit/base >15	Current 0 0 0 0 <1 0 1824 2 1 1 <1 <1 Current 3	history1 1 1 history1	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base 0 0 0 0 0 1900 0 25 25 limit/base >15	Current 0 0 0 0 0 0 <1 0 1824 2 1 <1 <1 2 1 <1 0 3 <1	history1 1 1 history1 history1	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base 0 0 0 0 0 1900 0 25 25 limit/base >15 >20	Current 0 0 0 0 <1 0 1824 2 1 1824 2 1 <1 <1 0 1824 2 1 3 <1 3 <1	history1	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium ppm Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	limit/base 0 0 0 0 0 1900 0 25 25 25 limit/base >15 >20 >200	Current Cur	history1 1 1 history1 history1 71	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium ppm Water	ррт ррт ррт ррт ррт ррт ррт ррт	method ASTM D5185(m) ASTM D5185(m)	limit/base 0 0 0 0 1900 0 25 25 25 15 15 >15 >20 >200	Current 0 0 0 0 <1 0 1824 2 1 <1 <1 Current 3 <1 <1 103 Current	history1 1 1 1 history1 71 bistory1	history2 history2 80 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium ppm Water FLUID DEGRADA	ppm ppm	method ASTM D5185(m) ASTM D5185(m)	limit/base 0 0 0 0 1900 0 25 limit/base >15 >20 >200 limit/base	Current 0 0 0 0 -1 0 1824 2 1 -1 -1 -1 -1 -1 -1 -1 -1 -1	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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	72.3	52.0		
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image
GRAPHS						



Sample No. : GTT0001056 Received : 22 Mar 2024 131 Bermondsey Road Lab Number : 02624059 Tested : 26 Mar 2024 Unique Number : 5749178 Diagnosed : 26 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: (905)694-6302 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 - GTT0000006

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