

## **OIL ANALYSIS REPORT**

Sample Rating Trend WATER

Fluid

[GTT224-336] CARRIER 4009Q17897(B) Component Chiller

## CASTROL AIRCOL SW 220 (--- GAL)

DIAGNOSIS	SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
A Recommendation	Sample Number		Client Info		GTT0001942	GTT12864	GTT12865
If not recently done change any filter driers to	Sample Date		Client Info		06 Mar 2024	23 Apr 2021	07 Apr 2017
reduce moisture level. The acid number (AN)	Machine Age	hrs	Client Info		0		
indicates that your fluid has reached the end of its	Oil Age	hrs	Client Info		0		
useful life, please proceed with a complete oil change. We recommend an early resample to	Oil Changed		Client Info		N/A	N/A	N/A
monitor this condition.	Sample Status				ABNORMAL	ATTENTION	NORMAL
Wear	WEAR METALS		method	limit/base	current	history1	history2
All component wear rates are normal.	Iron	ppm	ASTM D5185(m)	>8	<1	<1	<1
Contamination	Chromium	ppm	ASTM D5185(m)	>2	0	<1	<1
The elevated moisture content is associated with	Nickel	ppm	ASTM D5185(m)		0		
POE oils which are hygroscopic, and can absorb moisture from sampling and processing.	Titanium	ppm	ASTM D5185(m)		0		
Fluid Condition The AN level is above the recommended limit. The oil is no longer serviceable.	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)	30	19		
	Zinc	ppm	ASTM D5185(m)	0	<1	4	<1
	Sulfur	ppm	ASTM D5185(m)	30	27		
	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)		<1		
	Potassium	ppm	ASTM D5185(m)	>20	<1		
	ppm Water	ppm	ASTM D6304*	>200	248	633	44
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D974*	0.03	<b>0.17</b>	0.068	0.035



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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	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	220	188		
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color				GT TOCO 1942	no image	no image
Bottom					no image	no image
GRAPHS						



 Sample No.
 : GTT0001942
 Received
 : 22 Mar 2024
 Sample Number

 Lab Number
 : 02624061
 Tested
 : 26 Mar 2024
 Sample Number
 Sample Number
 : 5749180
 Diagnosed
 : 26 Mar 2024 - Bill Quesnel
 Sample Number
 : 5749180
 Contact: Sample report, contact Customer Service at 1-905-847-9300 Ext 26.
 Samp@cynery

 To discuss this sample report, contact Customer Service at 1-905-847-9300 Ext 26.
 ap@cynery
 Sam@cynery

 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 To

 Damages: Seller shall in no event be liable for special, incidental, or consequential damages, of a commercial nature, resulting from any cause.
 To

Cynergy Mechanical Ltd. 34 Leading Road Etobicoke, ON CA M9V 3S9 Contact: Service Manager ap@cynergymechanical.ca T: (416)749-2200 my cause. F:

Contact/Location: Service Manager - GTT0000446