

OIL ANALYSIS REPORT

Sample Rating Trend



CASTROL AIRCOL SW 220 (--- GAL)

CARRIER 4009Q17896(B)

[GTT224-336]

Component Chiller Fluid

DIAGNOSIS	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GTT0001924	GTT12861	GTT12862
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. We recommend an early	Machine Age	hrs	Client Info		0		
resample to monitor this condition.	Oil Age	hrs	Client Info		0		
Wear	Oil Changed		Client Info		N/A	N/A	N/A
All component wear rates are normal.	Sample Status				ATTENTION	ATTENTION	NORMAL
Contamination The elevated moisture content is associated with	WEAR METALS		method	limit/base	current	history1	history2
POE oils which are hygroscopic, and can absorb	Iron	ppm	ASTM D5185(m)	>8	3	<1	<1
moisture from sampling and processing.	Chromium	ppm	ASTM D5185(m)		0	<1	<1
Fluid Condition	Nickel	ppm	ASTM D5185(m)	-	0		
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Titanium	ppm	ASTM D5185(m)		0		
	Silver	ppm	ASTM D5185(m)	>2	0		
	Aluminum	ppm	ASTM D5185(m)		0	<1	<1
	Lead	ppm	ASTM D5185(m)		0	<1	<1
	Copper	ppm	ASTM D5185(m)		۲ ۲	<1	<1
	Tin	ppm	ASTM D5185(m)		0	<1	<1
	Antimony	ppm	ASTM D5185(m)	~7	0		
	Vanadium		ASTM D5185(m)		0		
	Beryllium	ppm	ASTM D5185(m)		0		
	Cadmium	ppm	ASTM D5185(m) ASTM D5185(m)		0		
	Gaumum	ppm	ASTIVI DS163(III)		U		
	ADDITIVES		method	limit/base		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	21		
	Zinc	ppm	ASTM D5185(m)	0	<1	<1	<1
	Sulfur	ppm	ASTM D5185(m)	30	34		
	Lithium	ppm	ASTM D5185(m)		<1		
	CONTAMINANTS	6	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*		223	364	48
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D974*	0.03	0.07	0.053	0.034



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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	189		
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image
GRAPHS			_			



Sample No. : GTT0001924 Received : 22 Mar 2024 34 Leading Road Lab Number : 02624062 Tested : 26 Mar 2024 Unique Number : 5749181 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. ap@cynergymechanical.ca Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (416)749-2200 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 - GTT0000446

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Etobicoke, ON

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Cynergy Mechanical Ltd.