

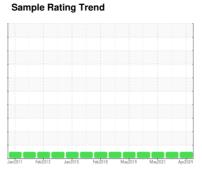
OIL ANALYSIS REPORT



[GTT224-372 1-10MW55H] **YORK SDVM283800**

Componen Chiller

YORK TYPE K (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

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

Fluid Condition

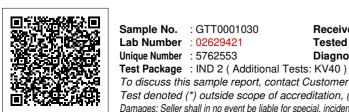
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Client Info	-)		OBIZOTI	0812013	TEOLOGO MOYLOGO MOYLOC	APIEUZT	
Client Info	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 0	Sample Number		Client Info		GTT0001030	GTT64310	GTT64311
Dil Age	Sample Date		Client Info		05 Apr 2024	07 Apr 2022	07 May 2021
Oil Changed Client Info N/A NORMAL NORMAL NORMAL NORMAL	Machine Age	hrs	Client Info		0		
NORMAL NORMAL NORMAL NORMAL WEAR METALS method limit/base current history1 history2	Oil Age	hrs	Client Info		0		
WEAR METALS	Oil Changed		Client Info		N/A	N/A	N/A
Irron	Sample Status				NORMAL	NORMAL	NORMAL
Chromium ppm ASTM D5185(m) >2 0 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185(m)	>8	0	<1	<1
Titanium	Chromium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	Nickel	ppm	ASTM D5185(m)		0		
Aluminum	Titanium	ppm	ASTM D5185(m)		0		
Lead	Silver	ppm	ASTM D5185(m)	>2	0		
Copper ppm ASTM D5185(m) >8 0 <1	Aluminum	ppm	ASTM D5185(m)	>3	0	<1	<1
Tin	Lead	ppm	ASTM D5185(m)	>2	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 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 0 Calcium ppm ASTM D5185(m) 0 0 Phosphorus ppm ASTM D5185(m) 0 <1 <1 <1 Sulfur	Copper	ppm	ASTM D5185(m)	>8	0	<1	<1
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 <1 Barium 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 0 Phosphorus ppm ASTM D5185(m) 5 0 Zinc ppm ASTM D5185(m) 0 <1 <1 <1	Tin	ppm	ASTM D5185(m)	>4	0	<1	<1
Beryllium	Antimony	ppm	ASTM D5185(m)		0		
Cadmium ppm ASTM D5185(m) 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 0 <1 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 0 Calcium ppm ASTM D5185(m) 0 0 Phosphorus ppm ASTM D5185(m) 0 Zinc ppm ASTM D5185(m) 0 <1 <1 <1 Sulfur ppm ASTM D5185(m) 0 <1 Lithium ppm ASTM D5185(m) >15 1 </th <th>Vanadium</th> <th>ppm</th> <th>ASTM D5185(m)</th> <th></th> <th>0</th> <th></th> <th></th>	Vanadium	ppm	ASTM D5185(m)		0		
ADDITIVES	Beryllium	ppm	ASTM D5185(m)		0		
Boron ppm ASTM D5185(m) 0 <1	Cadmium	ppm	ASTM D5185(m)		0		
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185(m) 0 0 Manganese ppm ASTM D5185(m) 0 0 Magnesium ppm ASTM D5185(m) 0 0 Calcium ppm ASTM D5185(m) 0 Phosphorus ppm ASTM D5185(m) 5 0 Zinc ppm ASTM D5185(m) 0 <-1	Boron	ppm	ASTM D5185(m)	0	<1		
Manganese ppm ASTM D5185(m) 0 0 Magnesium ppm ASTM D5185(m) 0 0 Calcium ppm ASTM D5185(m) 0 0 Phosphorus ppm ASTM D5185(m) 5 0 Zinc ppm ASTM D5185(m) 0 <1 <1 <1 Sulfur ppm ASTM D5185(m) 10 15 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) >20 1 Potassium ppm ASTM D6304* >300 185 109 145 FLUID DEGRADATION method limit/base	Barium	ppm	ASTM D5185(m)	0	0		
Magnesium ppm ASTM D5185(m) 0 Calcium ppm ASTM D5185(m) 0 0 Phosphorus ppm ASTM D5185(m) 5 0 Zinc ppm ASTM D5185(m) 0 <1 <1 <1 Sulfur ppm ASTM D5185(m) 10 15 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) >20 1 Potassium ppm ASTM D6304* >300 185 109 145 FLUID DEGRADATION method limit/base current history1 history2	Molybdenum	ppm	ASTM D5185(m)	0	0		
Calcium ppm ASTM D5185(m) 0 Phosphorus ppm ASTM D5185(m) 5 0 Zinc ppm ASTM D5185(m) 0 <1 <1 <1 Sulfur ppm ASTM D5185(m) 10 15 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) >20 1 Potassium ppm ASTM D6304* >300 185 109 145 FLUID DEGRADATION method limit/base current history1 history2	Manganese	ppm	ASTM D5185(m)	0	0		
Phosphorus ppm ASTM D5185(m) 5 0 Zinc ppm ASTM D5185(m) 0 <1	Magnesium	ppm	ASTM D5185(m)	0	0		
Zinc ppm ASTM D5185(m) 0 <1	Calcium	ppm	ASTM D5185(m)	0	0		
Sulfur ppm ASTM D5185(m) 10 15 Lithium ppm ASTM D5185(m) <1	Phosphorus	ppm	ASTM D5185(m)	5	0		
Lithium ppm ASTM D5185(m) <1	Zinc	ppm	ASTM D5185(m)	0	<1	<1	<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* >300 185 109 145 FLUID DEGRADATION method limit/base current history1 history2	Sulfur	ppm	ASTM D5185(m)	10	15		
Silicon ppm ASTM D5185(m) >15 1 Sodium ppm ASTM D5185(m) <1	Lithium	ppm	ASTM D5185(m)		<1		
Sodium ppm ASTM D5185(m) <1	CONTAMINANTS	5	method	limit/base	current	history1	history2
Sodium ppm ASTM D5185(m) <1	Silicon	ppm	ASTM D5185(m)	>15	1		
Potassium ppm ASTM D5185(m) >20 1 ppm Water ppm ASTM D6304* >300 185 109 145 FLUID DEGRADATION method limit/base current history1 history2	Sodium				<1		
FLUID DEGRADATION method limit/base current history1 history2	Potassium			>20			
	ppm Water	ppm	ASTM D6304*	>300	185	109	145
Acid Number (AN) mg KOH/g ASTM D974* 0.03 0.07 0.044 0.057	FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D974*	0.03	0.07	0.044	0.057



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	VLITE		
Sand/Dirt	scalar	Visual*	NONE	VLITE		
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)	32.0	32.3		
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image
GRAPHS						



Sample No. : GTT0001030 Received : 16 Apr 2024 Lab Number : 02629421 Tested : 22 Apr 2024

Unique Number : 5762553 Diagnosed

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.

: 22 Apr 2024 - Bill Quesnel

Johnson Controls - Hamilton

40 Hempstead Drive, Hamilton, ON

CA L8W 2E7 Contact: Service Manager

Report Id: GTT0000248 [WCAMIS] 02629421 (Generated: 04/22/2024 12:10:33) Rev: 1

Contact/Location: Service Manager - GTT0000248

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F: