

OIL ANALYSIS REPORT

Sample Rating Trend DEGRADATION

Chiller Fluid

Queens Univ. Sterling 1B **ČARRIER 4797F10798(1B)**

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GTT0001454	GTT15501	GTT15502
Sample Date		Client Info		02 Aug 2023	01 Mar 2021	09 Mar 202
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	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>8	1 0	2	2
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	2	<1	<1
Copper	ppm	ASTM D5185(m)	>8	2	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	history
Boron	ppm	ASTM D5185(m)	0	3		
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)	10	0		
Phosphorus	ppm	ASTM D5185(m)	250	1		
Zinc	ppm	ASTM D5185(m)	0	4 9	8	9
Sulfur	ppm	ASTM D5185(m)	400	25		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history
Silicon	ppm	ASTM D5185(m)	>15	21		
Sodium	ppm	ASTM D5185(m)		0		
Detection	ppm	ASTM D5185(m)	>20	<1		
Potassium			. 000	170	231	290
ppm Water	ppm	ASTM D6304*	>200	172	201	200
		method	>200 limit/base	current	history1	history2

DIAGNOSIS

Recommendation

The oil is near the end of it's useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

Component

Wear

Iron, lead, zinc and copper ppm levels are noted. The high metal levels indicate corrosion in the system.

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.



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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)		120		
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image
GRAPHS						



Sample No. : GTT0001454 Recieved : 03 Jan 2024 C/O Conduent Div of Carrier Canada, 1-2740 Matheson Blvd . Lab Number : 02606350 Diagnosed : 09 Jan 2024 Unique Number : 5707436 Diagnostician : Bill Quesnel Test Package : IND 2 (Additional Tests: KV40) Contact: Brian Raymundo To discuss this sample report, contact Customer Service at 1-905-847-9300 Ext 26. Brian.Raymundo@carrier.com 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.

Contact/Location: Brian Raymundo - GTT0000224

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Carrier Commerical Service

Mississauga, ON

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