

OIL ANALYSIS REPORT

Abbot POC Ch#3 Comp#1 [4500054809] YORK 2KTM001637(3,1) Component

Chiller Fluid

REFRIGERATION OIL (POE) (--- GAL)

DIAGNOSIS

Recommendation

This unit should be monitored closely by a service engineer. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

A Wear

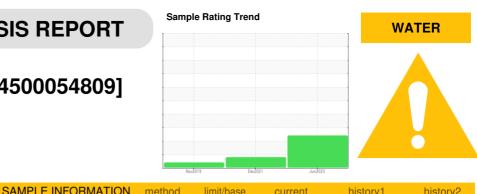
Iron ppm levels are abnormal. The abnormal iron reading indicates possible wear occurring on the rotor main bearings, the rotor thrust bearings, the rotors or the slide valve assembly (if equipped).

Contamination

The elevated moisture content is associated with POE oils which are hygroscopic, and can absorb moisture from sampling and processing.

Fluid Condition

The AN level is acceptable for this fluid.



SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GTT0001433	GTT10580	GTT10581
Sample Date		Client Info		21 Jun 2023	07 Dec 2021	07 Nov 2019
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	MARGINAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>8	A 87	4 8	22
Chromium	ppm	ASTM D5185(m)	>2	<1	<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	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>8	4	3	<1
Tin	ppm	ASTM D5185(m)	>4	<1	<1	2
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	2		
Barium	ppm	ASTM D5185(m)	0	1		
Molybdenum	ppm	ASTM D5185(m)	0	0		
Manganese	ppm	ASTM D5185(m)	0	1		
Magnesium	ppm	ASTM D5185(m)	0	2		
Calcium	ppm	ASTM D5185(m)	10	<1		
Phosphorus	ppm	ASTM D5185(m)	250	<1		
Zinc	ppm	ASTM D5185(m)	0	78	38	<u> </u>
Sulfur	ppm	ASTM D5185(m)	400	34		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	17		
Sodium	ppm	ASTM D5185(m)		1		
Potassium	ppm	ASTM D5185(m)	>20	1		
ppm Water	ppm	ASTM D6304*	>200	312	247	327
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.07	0.09	0.084	0.029



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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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)		87.0		
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image
GRAPHS						



 Sample No.
 : GTT0001433
 Recieved
 : 03 Jan 2024
 C/O Conduent Div of Car

 Lab Number
 : 02606336
 Diagnosed
 : 09 Jan 2024

 Unique Number
 : 5707422
 Diagnostician
 : Bill Quesnel

 Test Package
 : IND 2 (Additional Tests: KV40)
 Conduct Divide Scope of accreditation, (m) method modified, (e) tested at external lab.

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

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

Carrier Commerical Service C/O Conduent Div of Carrier Canada, 1-2740 Matheson Blvd Mississauga, ON CA L4W 4X3 Contact: Brian Raymundo Brian.Raymundo@carrier.com T: m any cause. F:

Contact/Location: Brian Raymundo - GTT0000224