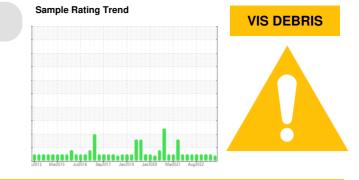


PROBLEM SUMMARY



FRICK C-2 1104 (S/N 80819)

Refrigeration Compressor Fluid USPI 1009-68 SC (--- LTR)

COMPONENT CONDITION SUMMARY

No relevant graphs to display

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	NORMAL	NORMAL	
Debris	scalar	*Visual	NONE	🔺 MODER	NONE	NONE	

Customer Id: CARSPRALB Sample No.: USP0003483 Lab Number: 06015792 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

RECOMMENDED	ACTIONS			
Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS



06 Jul 2023 Diag: Doug Bogart

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report

30 Mar 2023 Diag: Doug Bogart



Resa any o AN le

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

15 Dec 2022 Diag: Doug Bogart





Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.







OIL ANALYSIS REPORT

VIS DEBRIS

FRICK C-2 1104 (S/N 80819)

Refrigeration Compressor Fluid USPI 1009-68 SC (--- LTR)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

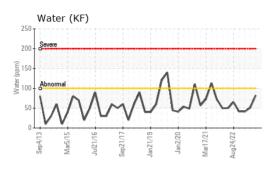
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

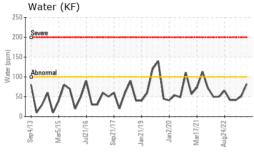
Machine Age hrs Client Info 92201 90279 88554 Oil Age hrs Client Info N/A Not Changed Not Changed Sample Status Client Info N/A Not Changed Not Changed Not Changed WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM D5185m >8 0 0 2 Iron ppm ASTM D5185m >2 0 0 0 Nickel ppm ASTM D5185m >2 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Lead ppm ASTM D5185m >2 0 0 0 Cadmium ppm ASTM D5185m >4 0 0 0 ADDTIVES method Imit/base current history1 history2 Barium ppm ASTM D5185m 0 0 0	SAMPLE INFORMATION		method	limit/base	current	history1	history2
Machine Age hrs Client Info 92201 90279 88554 Oil Aga hrs Client Info 0 0 0 Sample Status Image Nor Changod Nor Changod Nor Changod Nor Changod Sample Status Image Image Nor Mal Nor Changod Nor Changod WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM DS185m >8 0 0 2 Chromium ppm ASTM DS185m >2 0 0 0 Nickel ppm ASTM DS185m >2 0 0 0 Silver ppm ASTM DS185m >2 0 0 0 Cadmium ppm ASTM DS185m >2 0 0 0 Cadmium ppm ASTM DS185m >2 0 0 0 ADDTIVES method Imit/base current history1 history2 Barum ppm ASTM DS185m < 0 0 0 Mandanese ppm ASTM DS185m 0 0 0 Barum ppm ASTM DS185m	Sample Number		Client Info		USP0003483	USP211973	USP249590
Machine Age hrs Client Info 92201 90279 88554 Oil Aga hrs Client Info 0 0 0 Sample Status Image Nor Changod Nor Changod Nor Changod Nor Changod Sample Status Image Image Nor Mal Nor Changod Nor Changod WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM DS185m >8 0 0 2 Chromium ppm ASTM DS185m >2 0 0 0 Nickel ppm ASTM DS185m >2 0 0 0 Silver ppm ASTM DS185m >2 0 0 0 Cadmium ppm ASTM DS185m >2 0 0 0 Cadmium ppm ASTM DS185m >2 0 0 0 ADDTIVES method Imit/base current history1 history2 Barum ppm ASTM DS185m < 0 0 0 Mandanese ppm ASTM DS185m 0 0 0 Barum ppm ASTM DS185m	Sample Date		Client Info		02 Nov 2023	06 Jul 2023	30 Mar 2023
Oli Changed Client Info N/A Not Changd NORMAL Not Changd Sample Status Image current Nistory2 Iron ppm ASTM D5185n >8 0 0 2 Chromium ppm ASTM D5185n >8 0 0 2 Nickel ppm ASTM D5185n >2 0 0 0 Nickel ppm ASTM D5185n 2 0 0 0 Silver ppm ASTM D5185n >2 0 0 0 Aluminum ppm ASTM D5185n >2 0 0 0 Cadmium ppm ASTM D5185n >2 0 0 0 Cadmium ppm ASTM D5185n >2 0 0 0 Cadmium ppm ASTM D5185n >4 0 0 0 Cadmium ppm ASTM D5185n 0 0 0 0 Boron ppm ASTM D5185n 0 0 0 0 Magnesium ppm ASTM D5185n 0 0 0 0 Magnesium ppm ASTM D5185n 0 0 0 0 <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>92201</th> <th></th> <th>88554</th>	Machine Age	hrs	Client Info		92201		88554
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Manganese ppm ASTM D5185m 0 <1	Barium	ppm	ASTM D5185m		0	0	0
Magnesium ppm ASTM D5185m 0 0 0 Calcium ppm ASTM D5185m 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 Zinc ppm ASTM D5185m 0 0 0 11 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 <1 <1 1 Sodium ppm ASTM D5185m >15 <1 <1 1 Sodium ppm ASTM D5185m >20 0 0 0 Potassium ppm ASTM D5185m >20 0 0 0 Water % ASTM D6304 >0.01 0.008 0.005 0.004 ppm Water ppm ASTM D7647 >10000 784 1073 Particles >4µm ASTM D7647 >2500 745 200	Molybdenum	ppm	ASTM D5185m		0	0	0
Calcium ppm ASTM D5185m 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 Zinc ppm ASTM D5185m 0 0 0 <1 Sulfur ppm ASTM D5185m 50 0 0 11 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 <1 <1 1 Sodium ppm ASTM D5185m >15 <1 0 0 Potassium ppm ASTM D5185m >20 0 0 0 Water % ASTM D5185m >20 0 0.005 0.004 ppm Water ppm ASTM D504 >0.01 82 50.8 41.3 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 784 1073	Manganese	ppm	ASTM D5185m		0	<1	<1
Phosphorus ppm ASTM D5185m 0 0 0 Zinc ppm ASTM D5185m 50 0 0 11 Sulfur ppm ASTM D5185m 50 0 0 11 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 <1	Magnesium	ppm	ASTM D5185m		0	0	0
Zinc ppm ASTM D5185m 0 0 <1	Calcium	ppm	ASTM D5185m		0	0	0
Sulfur ppm ASTM D5185m 50 0 0 11 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 <1	Phosphorus	ppm	ASTM D5185m		0	0	0
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 <1 <1 1 Sodium ppm ASTM D5185m >15 <1 0 0 Potassium ppm ASTM D5185m >20 0 0 0 Water % ASTM D6304 >0.01 0.008 0.005 0.004 ppm Water ppm ASTM D6304 >100 82 50.8 41.3 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 784 1073 Particles >6µm ASTM D7647 >2500 245 200 Particles >14µm ASTM D7647 >20 7 7 Particles >38µm ASTM D7647 >20 0 0 Particles >71µm ASTM D7647 20 0 0	Zinc	ppm	ASTM D5185m		0	0	<1
Silicon ppm ASTM D5185m >15 <1	Sulfur	ppm	ASTM D5185m	50	0	0	11
Sodium ppm ASTM D5185m <1	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 0 0 0 Water % ASTM D6304 >0.01 0.008 0.005 0.004 ppm Water ppm ASTM D6304 >100 82 50.8 41.3 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 784 1073 Particles >6µm ASTM D7647 >2500 245 200 Particles >14µm ASTM D7647 >320 7 7 Particles >21µm ASTM D7647 >20 0 0 Particles >38µm ASTM D7647 >20 0 0 Particles >71µm ASTM D7647 >4 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 17/15/10 17/15/10 FLUID DEGRADATION method limit/base current history1 history2 <th>Silicon</th> <th>ppm</th> <th>ASTM D5185m</th> <th>>15</th> <th><1</th> <th><1</th> <th>1</th>	Silicon	ppm	ASTM D5185m	>15	<1	<1	1
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Particles >14µm ASTM D7647 >320 7 7 Particles >21µm ASTM D7647 >80 2 0 Particles >38µm ASTM D7647 >20 0 0 Particles >38µm ASTM D7647 >20 0 0 Particles >71µm ASTM D7647 >4 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 17/15/10 17/15/10 FLUID DEGRADATION method limit/base current history1 history2	Particles >4µm					784	1073
Particles >21µm ASTM D7647 >80 2 0 Particles >38µm ASTM D7647 >20 0 0 Particles >38µm ASTM D7647 >20 0 0 Particles >71µm ASTM D7647 >4 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 17/15/10 17/15/10 FLUID DEGRADATION method limit/base current history1 history2	Particles >6µm		ASTM D7647	>2500		245	200
Particles >38μm ASTM D7647 >20 0 0 Particles >71μm ASTM D7647 >4 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 17/15/10 17/15/10 FLUID DEGRADATION method limit/base current history1 history2	Particles >14µm		ASTM D7647	>320		7	7
Particles >71μm ASTM D7647 >4 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 17/15/10 17/15/10 FLUID DEGRADATION method limit/base current history1 history2	Particles >21µm		ASTM D7647	>80		2	0
Oil Cleanliness ISO 4406 (c) >20/18/15 17/15/10 17/15/10 FLUID DEGRADATION method limit/base current history1 history2	Particles >38µm		ASTM D7647	>20		0	0
FLUID DEGRADATION method limit/base current history1 history2	Particles >71µm		ASTM D7647	>4		0	0
	Oil Cleanliness		ISO 4406 (c)	>20/18/15		17/15/10	17/15/10
Acid Number (AN) mg KOH/g ASTM D974 0.005 0.01 0.013 0.012	FLUID DEGRADA		method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.01	0.013	0.012

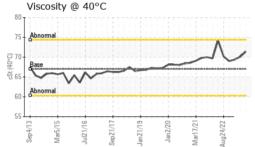
Contact/Location: SERVICE MANAGER ? - CARSPRALB



OIL ANALYSIS REPORT



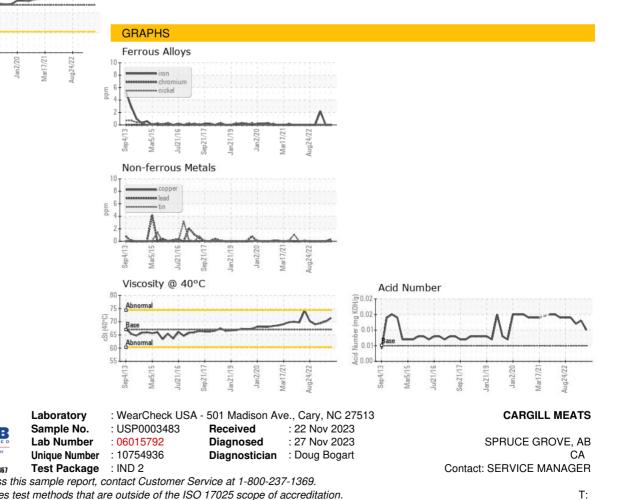




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	A MODER	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.01	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	67	71.4	70.1	69.4
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color				2 JE11		



Bottom



Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: SERVICE MANAGER ? - CARSPRALB

F: