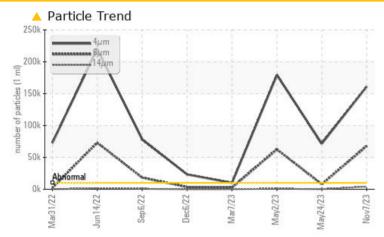


PROBLEM SUMMARY

Machine Id C-2702A EAST (S/N 254) Component

Refrigeration Compressor Fluid FES 4 (210 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL		
Particles >4µm	ASTM D7647	>10000	<u> </u>	▲ 71554	1 79271		
Particles >6µm	ASTM D7647	>2500	67783	▲ 7834	▲ 62562		
Particles >14µm	ASTM D7647	>320	4070	70	A 929		
Particles >21µm	ASTM D7647	>80	673	6	80		
Oil Cleanliness	ISO 4406 (c)	>20/18/15	25/23/19	23/20/13	▲ 25/23/17		

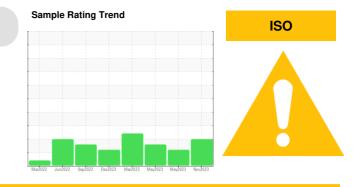
Customer Id: RECSIL_USP Sample No.: USP0003722 Lab Number: 06008354 Test Package: IND 2



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 customerservice@wearcheck.com



RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Filter			?	We recommend you service the filters on this component.		

HISTORICAL DIAGNOSIS



24 May 2023 Diag: Doug Bogart

Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report

02 May 2023 Diag: Doug Bogart

We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

VIECOSITY

view report



07 Mar 2023 Diag: Doug Bogart

We advise an early resample to confirm this situation.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand or type of oil. Confirmed.



OIL ANALYSIS REPORT

Sample Rating Trend ISO

C-2702A EAST (S/N 254) Component

Refrigeration Compressor Fluid FES 4 (210 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

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

		in a the a d	line it /le e e e		la la tanun d	history O
SAMPLE INFORM	NOTATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0003722	USP248449	USP234140
Sample Date		Client Info		07 Nov 2023	24 May 2023	02 May 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	3	22	17
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	0
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	0	0	0
Vanadium	ppm	ASTM D5185m	e 1	<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m		0	0	<1
Phosphorus	ppm	ASTM D5185m		<1	0	0
Zinc	ppm	ASTM D5185m		5	22	15
Sulfur	ppm	ASTM D5185m		22	3	0
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	4	5	4
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
Water	%	ASTM D6304	>0.01	0.005	0.001	0.002
ppm Water	ppm	ASTM D6304	>100	55.0	13.7	22.6
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	A 161016	▲ 71554	▲ 179271
Particles >6µm		ASTM D7647	>2500	<u> </u>	▲ 7834	▲ 62562
Particles >14µm		ASTM D7647	>320	4070	70	9 29
Particles >21µm		ASTM D7647	>80	<u> </u>	6	80
Particles >38µm		ASTM D7647	>20	6	0	2
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	A 25/23/19	▲ 23/20/13	▲ 25/23/17
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974		0.013	0.016	0.015

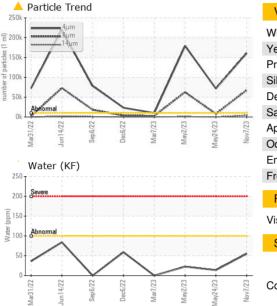


Acid Number

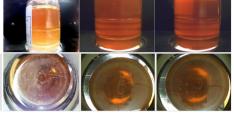
0.05

(B/H0)

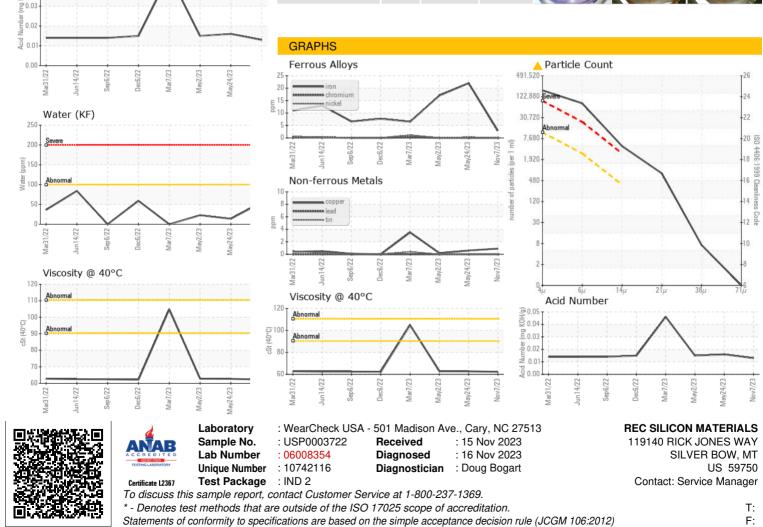
OIL ANALYSIS REPORT



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	LIGHT	LIGHT	LIGHT
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		62.2	62.7	62.8
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color				a.		



Bottom



Contact/Location: Service Manager - RECSIL_USP