

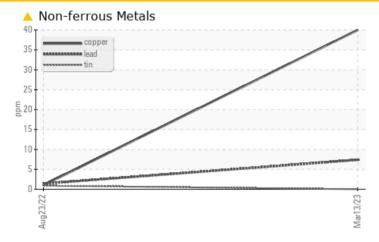
PROBLEM SUMMARY

FULL FLIGHT SIMULATO L3 EMZK 564 (FAA 1638)

Hydraulic System

SHELL NATURELLE HF-E ISO 68 (190 LTR)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Resample at the next service interval to monitor. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	ABNORMAL		
Copper	ppm	ASTM D5185m	>20	<u> </u>	1		

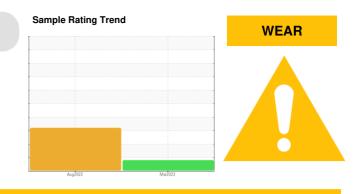
Customer Id: AIRAURCO Sample No.: ST36940 Lab Number: 05812184 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 <u>jhester@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	Descri
Contact Required			?	Due to (201)-4

ription

o an abnormal test result it is recommended to contact Stauff Corp at 444-7800 for help resolving the issue.

HISTORICAL DIAGNOSIS

23 Aug 2022 Diag: Doug Bogart





We recommend you service the filters on this component. We advise an early resample to confirm this situation. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue. If sample was mailed in original kit packaging, it's possible Postal Service lost sample bottle and put another used oil into container.All component wear rates are normal. There is a high amount of particulates present in the oil. The water content is negligible. The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.





OIL ANALYSIS REPORT

FULL FLIGHT SIMULATO L3 EMZK 564 (FAA 1638)

Hydraulic System

SHELL NATURELLE HF-E ISO 68 (190 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.

🔺 Wear

The copper level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

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

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			Aug2022	Mar2023		
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		ST36940	ST39549	
Sample Date		Client Info		13 Mar 2023	23 Aug 2022	
Machine Age	hrs	Client Info		0	0	
Dil Age	hrs	Client Info		14758	11592	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history 1	history 2
ron	ppm	ASTM D5185m	>20	5	4	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>20	0	<1	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	<1	
Aluminum	ppm	ASTM D5185m	>20	4	2	
Lead	ppm	ASTM D5185m	>20	7	1	
Copper	ppm	ASTM D5185m	>20	<u> </u>	1	
Tin	ppm	ASTM D5185m	>20	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		0	7	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	60	
Manganese	ppm	ASTM D5185m		6	<1	
Magnesium	ppm	ASTM D5185m		9	852	
Calcium	ppm	ASTM D5185m		<1	1156	
Phosphorus	ppm	ASTM D5185m		208	1040	
Zinc	ppm	ASTM D5185m		28	1248	
Sulfur	ppm	ASTM D5185m		2319	3786	
CONTAMINANTS	6	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>15	<1	4	
Sodium	ppm	ASTM D5185m		<1	3	
Potassium	ppm	ASTM D5185m	>20	0	1	
Water	%	ASTM D6304	>0.05	0.019	0.032	
opm Water	ppm	ASTM D6304		199.4	322.3	
FLUID CLEANLIN	NESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647	>5000	2038	9074	
Particles >6µm		ASTM D7647	>1300	217	4 943	
Particles >14µm		ASTM D7647	>160	9	A 841	
Particles >21µm		ASTM D7647	>40	1	A 283	
Particles >38µm		ASTM D7647	>10	0	4 4	
Particles >71µm		ASTM D7647		0	<u> </u>	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/15/10	▲ 20/19/17	
FLUID DEGRADA	ATION	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045		2.51	1.48	

Sample Rating Trend

WEAR



Acid Number

3 (

___2.5 KOH

.0 Acid

0.0

0.60

0.4

0.3

2²0.24

0.12

0.00

9

90

85

(j. 80 0-0+75

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65

60

55

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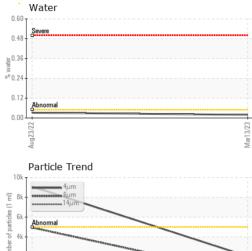
Base

Abnorma

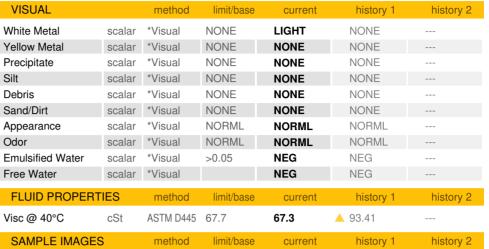
1073

Water

OIL ANALYSIS REPORT



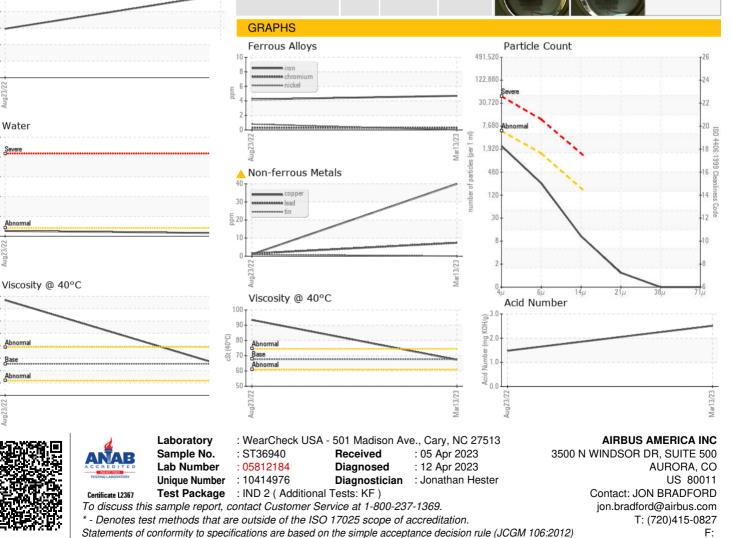




Color



Bottom



Report Id: AIRAURCO [WUSCAR] 05812184 (Generated: 06/30/2023 16:27:18) Rev: 1

Contact/Location: JON BRADFORD - AIRAURCO