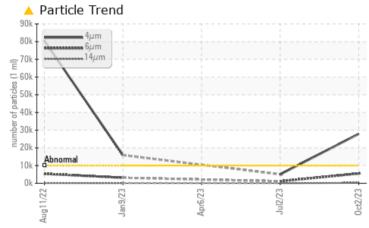


### **PROBLEM SUMMARY**

# C4 - SMALL BIRD ER (S/N S0881RFMPTHAA03)

Refrigeration Compressor Fluid USPI ALT-68 SC (--- GAL)

### COMPONENT CONDITION SUMMARY



### RECOMMENDATION

Resample at the next service interval to monitor.

Jul Jul									
PROBLEMATIC TEST RESULTS									
Sample Status			ABNORMAL	NORMAL	ABNORMAL				
Particles >4µm	ASTM D7647	>10000	<b>4</b> 27886	5017					
Particles >6µm	ASTM D7647	>2500	<b>5505</b>	1145					
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<b>22/20/15</b>	20/17/12					

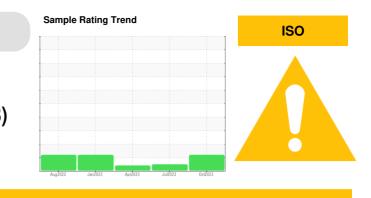
Customer Id: TYSKEYEUF Sample No.: USP0001692 Lab Number: 05968355 Test Package: IND 2



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**

There are no recommended actions for this sample.

### **HISTORICAL DIAGNOSIS**

### 02 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.

### 06 Apr 2023 Diag: Doug Bogart



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.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

09 Jan 2023 Diag: Doug Bogart

Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate 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.







Report Id: TYSKEYEUF [WUSCAR] 05968355 (Generated: 10/05/2023 05:24:32) Rev: 1



view report



### **OIL ANALYSI**

### Machine Id C4 - SMALL BIRD ER (S/N S0881R Component

**Refrigeration Compressor** Fluic

USPI ALT-68 SC (--- GAL)

### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

### Fluid Condition

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

SIS REPO	RT	Samp	le Rating Tre	end		ISO
31RFMPTHA	A03)	Auglozz		Apd023 Jud03		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status	hrs hrs	Client Info Client Info Client Info Client Info		USP0001692 02 Oct 2023 0 0 N/A ABNORMAL	USP250234 02 Jul 2023 0 0 N/A NORMAL	USP249967 06 Apr 2023 0 0 N/A ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium Cadmium Cadmium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm   ppm   ppm	ASTM D5185m ASTM D5185m	>8 >2 >2 >3 >2 >8 >4 Iimit/base	<1 0 1 0 0 0 0 0		
Sulfur	ppm	ASTM D5185m		1	0	0
CONTAMINANTS Silicon Sodium Potassium Water ppm Water	ppm ppm ppm % ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304	>20	current 1 0 <1 0.003 27.1	history1 0 0 0 0.002 24.6	history2 <1 0 0.005 53.2
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness		ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ISO 4406 (c)	>320 >80 >20 >4 >20/18/15	<ul> <li>27886</li> <li>5505</li> <li>265</li> <li>41</li> <li>0</li> <li>0</li> <li>22/20/15</li> </ul>	5017 1145 34 4 0 0 20/17/12	    
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Acid Number (AN)

mg KOH/g ASTM D974 0.005

Contact/Location: Service Manager - TYSKEYEUF

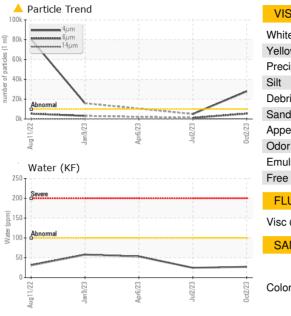
0.015

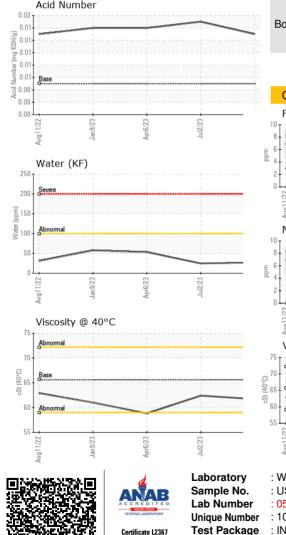
0.013

0.014



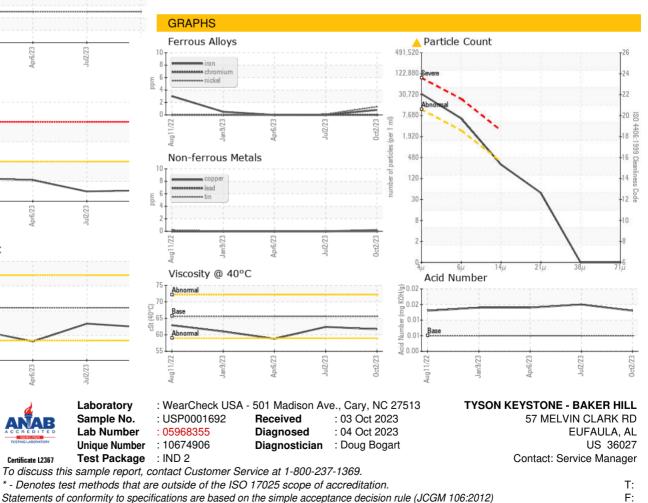
## **OIL ANALYSIS REPORT**





VISUAL method limit/base history1 history2 current NONE NONE White Metal \*Visual NONE NONE scalar Yellow Metal NONE NONE NONE NONE scalar \*Visual Precipitate scalar \*Visual NONE NONE NONE NONE scalar \*Visual NONE NONE NONE NONE Debris \*Visual NONE LIGHT LIGHT A MODER scalar NONE Sand/Dirt scalar \*Visual NONE NONE NONE NORML Appearance NORML NORML NORML scalar \*Visua \*Visual NORML NORML scalar NORML NORML \*Visual **Emulsified Water** scalar >0.01 NEG NEG NEG Free Water scalar \*Visual NEG NEG NEG FLUID PROPERTIES method limit/base curren history history2 Visc @ 40°C cSt ASTM D445 65.6 61.7 62.4 58.8 SAMPLE IMAGES method limit/base history1 current history2 Color

Bottom



Contact/Location: Service Manager - TYSKEYEUF