

AC Recondition Repair Report

FUTURE FUEL CHEMICAL

2800 GAP RD HWY 394 SO BATESVILLE, AR 72501

Priorities Found:		4 - High	(
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🔵 7 - Good

Genera	General		
1.	Job Number	98358	
2.	Report Date	06/22/2021	
3.	Customer	FUTURE FUEL	
Name Plate Information		o l	

4. Manufacturer









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5.	Model	R923	
6.	Serial Number	CAT# H100E1S	
7.	Horsepower	100 HP	
8.	KW	KW	
9.	Volts	460 Volts	
10.	Amps	111	
11.	RPM	3560 RPM	
12.	Frame	405TS	
13.	Enclosure	TEFC	
14.	Cycles	60	
15.	Phase	3 PH	
16.	Service Factor	1.15	
17.	Motor Mount Position		
nitial I	Inspection		o
18.	Number of Leads	12	
19.	Lead Length		
20.	Lead Size		
21.	Lead Condition	(P) Pass	P42
22.	Lead Markings	1-12	
23.	Lug Size, Condition, and Type		
24.	Winding RTD's		

25. Winding Rtd's Condition

26. Shaft Run Out

27.	Does Shaft Turn Freely	no
28.	Does Shaft Have Visible Damage	no
29.	Bearing Rtd's	
30.	Bearing Rtd's Condition	
31.	Contamination	
32.	Frame Condition	(P) Pass
33.	Fan Condition	
34.	Broken or missing components	
	Electric Test	
35.	Resistance to Ground	
36.	Winding Resistance 1-2	
37.	Winding Resistance 2-3	
38.	Winding Resistance 1-3	
39.	Resistive Imbalance	
40.	Hi-Pot	
• 41.	Surge Test	(P) Pass P58
		Image: Disc in the second s
42.	Stator Condition	pass
43.	Failure Location	
Initial	Rotor Inspection	
44.	Rotor Type	squirrel cage laminate
45.	Air Gap <10% Variation	
46.	Number of Rotor Bars	
47.	Number of Broken Rotor Bars	
48.	Growler Test	
49.	Rotor Condition	
Mecha	inical Inspection	
50.	-	SKF



52.	Bearing DE Type	regular ball bearing	
53.	DE Bearing Qty.	1	
54.	Bearing ODE Size	6214	
55.	Bearing ODE Type	regular ball bearing	P53
56.	ODE Bearing Qty.	1	
57.	Insulated Bearing	no	
58.	Lubrication Type	grease	
9 59.	Grease Condition	(F) Fail	
-	Dirty		
60.	Bearing Retainers	(Y) Yes	
61.	Shaft Grounding Device	(NA) Not Applicable	
62.	DE Seal	(NA) Not Applicable	
63.	DE Seal Type/Size		
64.	ODE Seal	(NA) Not Applicable	
65.	ODE Seal Type/Size		
Root C	Cause of Failure		
66.	Component Failure	D.E. bearing came apart	
67.	Cause of Failure		
	thousands out of tolerance. Primary cause of bear end housing fit requires machine work as well.	e apart. As a result the drive end shaft was bent 10 ing failure appears to be lack of lubrication. Also the drive	
68	Comments		

68. Comments

Terrence. Holland

/-	Linen Hollow	
Machi	ine Fit Inspection Report	
0 70.	Shaft Run Out	(F) Fail
71.	Initial Shaft Run Out	0.2 "
72.	Final Shaft Run Out	
) 73.	DE Bearing Shaft Fit	(F) Fail
74.	DE Initial Shaft Bearing Fit Size 1	
75.	DE Initial Shaft Bearing Fit Size 2	
76.	DE Initial Shaft Bearing Fit Size 3	
77.	DE Finial Shaft Bearing Fit Size 1	
78.	DE Finial Shaft Bearing Fit Size 2	
79.		
80.	-	
81.		
82.	-	
83.	-	
84.	-	
85.	-	
86.		
	-	
87.		
88.		
89.		
90.		
91.		
92.		
93.		(F) Fail
	Machine work needed.	
94.	DE Initial Endbell Fit Size 1	
95.	DE Initial Endbell Fit Size 2	
96.	DE Initial Endbell Fit Size 3	
97.	DE Final Endbell Fit Size 1	
98.	DE Finial Endbell Fit Size 2	
99.	DE Final Endbell Fit Size 3	
100	. DE Endbell Fit Insulated	(NA) Not Applicable
101	. DE Endbell Air Seal Fit	
102	. Initial Endbell Air Seal Fit Size	
103	. Finial Endbell Air Seal Fit Size	
104	. ODE Endbell Fit	
	. ODE Initial Endbell Fit Size 1	
	. ODE Initial Endbell Fit Size 2	
	. ODE Initial Endbell Fit Size 3	
	. ODE Final Endbell Fit Size 1	
	. ODE Final Endbell Fit Size 2	
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	ODE Final Endbell Fit Size 3	
	ODE Endbell Fit Insulated	
	ODE Endbell Air Seal Fit	
	ODE Initial Endbell Seal Fit Size	
	ODE Finial Endbell Seal Fit Size	
-	Foot Flatness	(P) Pass
-	Foot Condition	(P) Pass
	Flange Condition	(NA) Not Applicable
	Service Technician	
	ing Report	
119.	Balance Type	
120.	Balance Operating Speed	
121.	Start Left End	
122.	Start Right End	
123.	Balancing Specification	
124.	Finish Left End	
125.	Finish Right End	
126.	Service Technician	
Assem	bly and Final Test	
127.	Meggar Testing Reading	
128.	Surge Test	
129.	Hi-Pot	
130.	Winding Resistance 1-2	
131.	Winding Resistance 2-3	
132.	Winding Resistance 1-3	
133.	Test Run Voltage Phase A	
134.	Test Run Amps A	
135.	Test Run Voltage Phase B	
136.	Test Run Amps B	
137.	Test Run Voltage Phase C	
138.	Test Run Amps C	
139.	DE Horizontal Vibration Reading	
140.	DE Vertical Vibration Reading	
	DE Axial Vibration Reading	
142.	ODE Horizontal Vibration Reading	
143.	ODE Vertical Vibration Reading	
144.	ODE Axial Vibration Reading	
	Ambient Temp at start of Test Run	
	Temp at 5 minutes	
	Temp at 10 minutes	
148.	Temp at 15 minutes	
149.	Temp at 20 minutes	
	Temp at 25 minutes	
	Temp at 30 minutes	
	Temp at 35 minutes	
	Temp at 40 minutes	
	Temp at 45 minutes	
	Temp at 50 minutes	
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156. Temp at 55 minutes	
157. Temp at 60 minutes	
158. Motor Paint	
159. Service Technician	