



Hi-Speed Industrial Service  
7030 Ryburn Dr  
Millington, Tn 38053  
901-873-5300

## AC Recondition Repair Report

FolderID: 97831  
FormID: 9934701

**FUTURE FUEL CHEMICAL**  
2800 GAP RD HWY 394 SO  
BATESVILLE, AR 72501

Priorities Found:  1 - High  13 - Good

### General

- |                |       |
|----------------|-------|
| 1. Job Number  | 97831 |
| 2. Report Date |       |
| 3. Customer    |       |

### Name Plate Information









Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.



5. Model	7324586-001-CK T1
6. Serial Number	
7. Horsepower	18.5 HP
8. KW	
9. Volts	460
10. Amps	
11. RPM	
12. Frame	286TDZ
13. Enclosure	EXP
14. Cycles	60

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

15. Phase	3	
16. Service Factor		
17. Motor Mount Position		
<b>Initial Inspection</b>		
18. Number of Leads	6	P13
		
19. Lead Length		
20. Lead Size		
 21. Lead Condition	(P) Pass	
22. Lead Markings	T1-T-3 & T11-T13	P51
		
		
		
23. Lug Size, Condition, and Type		P67
<i>Good</i>		

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.



24.	Winding RTD's		
25.	Winding Rtd's Condition		
26.	Shaft Run Out		
27.	Does Shaft Turn Freely	<b>yes</b>	
28.	Does Shaft Have Visible Damage	<b>no</b>	P94



29.	Bearing Rtd's		
30.	Bearing Rtd's Condition		

31. Contamination

P104

Yes. Saturated with oil.



32. Frame Condition

(P) Pass

P106



33. Fan Condition

(P) Pass

P109



34. Broken or missing components  
*Fan cover cracked*

P113



## Initial Electric Test



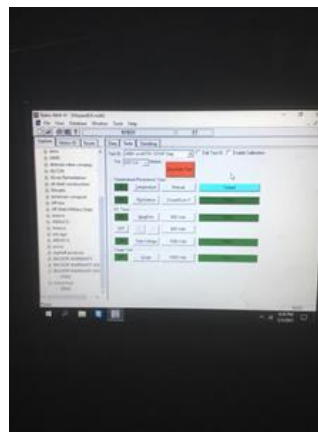
35. Resistance to Ground  
36. Winding Resistance 1-2  
37. Winding Resistance 2-3  
38. Winding Resistance 1-3  
39. Resistive Imbalance  
40. Hi-Pot

41. Surge Test

(P) Pass







P58









*First test is leads 11-12-13. 2nd test is leads 1-2-3*



Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.



42.	Stator Condition	good	
43.	Failure Location		
<b>Initial Rotor Inspection</b>			
44.	Rotor Type	squirrel cage	P4
			
45.	Air Gap <10% Variation		
46.	Number of Rotor Bars	38	
47.	Number of Broken Rotor Bars	0	
	48. Growler Test	(P) Pass	
	49. Rotor Condition	(P) Pass	
<b>Mechanical Inspection</b>			
50.	Bearing Manufacture	FAG	P1
			

51. Bearing DE Size	6310 2Z/C3	P15
		
52. Bearing DE Type	regular ball bearing	
53. DE Bearing Qty.	1	
54. Bearing ODE Size	6310 2Z	P43
		
55. Bearing ODE Type	regular ball bearing	P53
		
56. ODE Bearing Qty.	1	
57. Insulated Bearing	no	
58. Lubrication Type	grease	
 59. Grease Condition	(F) Fail	
 Contaminated with oil		
 60. Bearing Retainers	(Y) Yes	

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.



61.	Shaft Grounding Device	(NA) Not Applicable	
62.	DE Seal	(Y) Yes	P86
	Worn lip seal.		
			
63.	DE Seal Type/Size		
64.	ODE Seal	(NA) Not Applicable	
65.	ODE Seal Type/Size		
<b>Root Cause of Failure</b>			
66.	Component Failure		
67.	Cause of Failure		P14
	Stator saturated with oil		
			
68.	Comments		
	Stator windings were saturated with excessive amounts of oil. Recommend rewinding the stator.		
69.	Service Technician	Terrence Holland	
			
<b>Machine Fit Inspection Report</b>			
70.	Shaft Run Out		
71.	Initial Shaft Run Out		
72.	Final Shaft Run Out		
73.	DE Bearing Shaft Fit	(P) Pass	

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

74.	DE Initial Shaft Bearing Fit Size 1	1.969 "
75.	DE Initial Shaft Bearing Fit Size 2	1.9689 "
76.	DE Initial Shaft Bearing Fit Size 3	1.969 "
77.	DE Finial Shaft Bearing Fit Size 1	"
78.	DE Finial Shaft Bearing Fit Size 2	"
79.	DE Finial Shaft Bearing Fit Size 3	"
80.	ODE Bearing Shaft Fit	(P) Pass
81.	ODE Initial Shaft Bearing Fit Size 1	1.9688 "
82.	ODE Initial Shaft Bearing Fit Size 2	1.9688 "
83.	ODE Initial Shaft Bearing Fit Size 3	1.9688 "
84.	ODE Finial Shaft Bearing Fit Size 1	
85.	ODE Finial Shaft Bearing Fit Size 2	
86.	ODE Finial Shaft Bearing Fit Size 3	
87.	DE Air Seal Shaft Fit	
88.	DE Initial Air Seal Shaft Size	
89.	DE Final Air Seal Shaft Size	
90.	ODE Air Seal Shaft Fit	
91.	ODE Initial Air Seal Shaft Size	
92.	ODE Final Air Seal Shaft Size	
93.	DE Endbell Fit	(P) Pass
94.	DE Initial Endbell Fit Size 1	4.3314 "
95.	DE Initial Endbell Fit Size 2	4.3312 "
96.	DE Initial Endbell Fit Size 3	4.3314 "
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	(P) Pass
105.	ODE Initial Endbell Fit Size 1	4.3313 "
106.	ODE Initial Endbell Fit Size 2	4.3313 "
107.	ODE Initial Endbell Fit Size 3	4.3315 "
108.	ODE Final Endbell Fit Size 1	
109.	ODE Final Endbell Fit Size 2	
110.	ODE Final Endbell Fit Size 3	
111.	ODE Endbell Fit Insulated	
112.	ODE Endbell Air Seal Fit	
113.	ODE Initial Endbell Seal Fit Size	
114.	ODE Finial Endbell Seal Fit Size	
115.	Foot Flatness	(NA) Not Applicable
116.	Foot Condition	(NA) Not Applicable
117.	Flange Condition	(P) Pass
118.	Service Technician	Terrence Holland

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.



### Balancing 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

### Assembly 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
- 141. DE Axial Vibration Reading
- 142. ODE Horizontal Vibration Reading
- 143. ODE Vertical Vibration Reading
- 144. ODE Axial Vibration Reading
- 145. Ambient Temp at start of Test Run
- 146. Temp at 5 minutes
- 147. Temp at 10 minutes
- 148. Temp at 15 minutes
- 149. Temp at 20 minutes
- 150. Temp at 25 minutes
- 151. Temp at 30 minutes
- 152. Temp at 35 minutes
- 153. Temp at 40 minutes
- 154. Temp at 45 minutes
- 155. Temp at 50 minutes
- 156. Temp at 55 minutes
- 157. Temp at 60 minutes
- 158. Motor Paint

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

