



**KEEPING YOUR FACILITY UP TO SPEED**  
— EVERY DAY SINCE 1946 —

Motor Shop Repairs

**Job Number 99847**

Prepared for FUTURE FUEL CHEMICAL

2800 GAP RD HWY 394 SO  
BATESVILLE AR 72501

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

## AC Recondition Repair Report

FolderID: 99847  
FormID: 13700812

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

Priorities Found: ● 1 - High ● 12 - Good

### General

1. Job Number	99847
2. Report Date	
3. Customer	Future Fuel

### Name Plate Information

4. Manufacturer	U.S. Motors
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Printed on 7/7/2022

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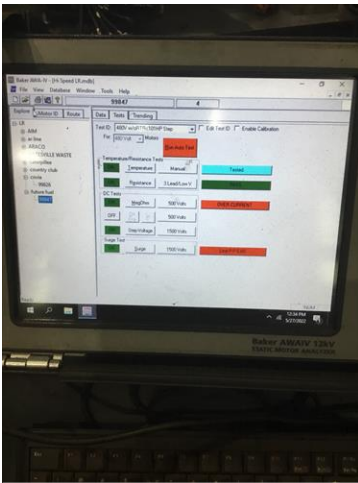


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1.2



5. Model	FC80
6. Serial Number	HO40P2BLG
7. Horsepower	40 HP
8. KW	
9. Volts	460 Volts
10. Amps	45 Amps
11. RPM	1780 RPM
12. Frame	324TP
13. Enclosure	WPI
14. Cycles	60 HZ
15. Phase	3 PH
16. Service Factor	1.15
17. Motor Mount Position	
<b>Initial Inspection</b>	
18. Number of Leads	9



19. Lead Length	12 Inches
20. Lead Size	
21. Lead Condition	(P) Pass
22. Lead Markings	1-9
23. Lug Size, Condition, and Type	
24. Winding RTD's	
25. Winding Rtd's Condition	

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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	(NA) Not Applicable



34. Broken or missing components

#### 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	(F) Fail
42. Stator Condition	
43. Failure Location	in slot



#### Initial Rotor Inspection

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#### 44. Rotor Type



45. Air Gap <10% Variation

46. Number of Rotor Bars

56

47. Number of Broken Rotor Bars

0

● 48. Growler Test

(P) Pass

● 49. Rotor Condition

(P) Pass

#### Mechanical Inspection

50. Bearing Manufacture

Fag

51. Bearing DE Size

6211 Z

52. Bearing DE Type

7220



53. DE Bearing Qty.

1





55. Bearing ODE Type	open ball bearing
56. ODE Bearing Qty.	1
57. Insulated Bearing	no
58. Lubrication Type	grease/oil
59. Grease Condition	



60. Bearing Retainers	(Y) Yes
61. Shaft Grounding Device	(NA) Not Applicable
62. DE Seal	
63. DE Seal Type/Size	
64. ODE Seal	
65. ODE Seal Type/Size	
<b>Root Cause of Failure</b>	
66. Component Failure	windings blown
67. Cause of Failure	
68. Comments	<i>Windings shorted in slot.</i>
69. Service Technician	Terrence. Holland

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## Machine Fit Inspection Report

70. Shaft Run Out	(P) Pass
71. Initial Shaft Run Out	0.001 "
72. Final Shaft Run Out	
73. DE Bearing Shaft Fit	
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. DE Finial Shaft Bearing Fit Size 3	
80. ODE Bearing Shaft Fit	(P) Pass
81. ODE Initial Shaft Bearing Fit Size 1	2.166 "
82. ODE Initial Shaft Bearing Fit Size 2	2.1598 "
83. ODE Initial Shaft Bearing Fit Size 3	2.1599 "
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	
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	
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	3.937 "
106. ODE Initial Endbell Fit Size 2	3.9371 "
107. ODE Initial Endbell Fit Size 3	3.9371 "
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	(P) Pass

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116. Foot Condition	
● 117. Flange Condition	(P) Pass
118. Service Technician	Terrence. Holland
	

### 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

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157. Temp at 60 minutes

● 158. Motor Paint

(P) Pass



159. Service Technician





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

## AC Random Coil Rewind Report

FolderID: 99847  
FormID: 13944750

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

Shop

Priorities Found:

### General

1. Job Number
2. Report Date
3. Customer

### Name Plate Information

4. Manufacturer
5. Model
6. Serial Number
7. Horsepower
8. KW
9. Volts
10. Amps
11. RPM
12. Frame
13. Enclosure
14. Cycles
15. Phase
16. Service Factor
17. Motor Mount Position

### Initial Inspection

18. Number of Leads
19. Lead Length
20. Lead Size
21. Lead Condition
22. Lead Markings
23. Lug Size, Condition, and Type
24. Winding RTD's
25. Winding Rtd's Condition
26. Shaft Run Out
27. Does Shaft Turn Freely
28. Does Shaft Have Visible Damage
29. Bearing Rtd's
30. Bearing Rtd's Condition
31. Contamination
32. Frame Condition
33. Fan Condition
34. Broken or missing components

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**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
- 42. Stator Condition
- 43. Failure Location

**Initial Rotor Inspection**

- 44. Rotor Type
- 45. Air Gap <10% Variation
- 46. Number of Rotor Bars
- 47. Number of Broken Rotor Bars
- 48. Growler Test
- 49. Rotor Condition

**Mechanical Inspection**

- 50. Bearing Manufacture
- 51. Bearing DE Size
- 52. Bearing DE Type
- 53. DE Bearing Qty.
- 54. Bearing ODE Size
- 55. Bearing ODE Type
- 56. ODE Bearing Qty.
- 57. Insulated Bearing
- 58. Lubrication Type
- 59. Grease Condition
- 60. Bearing Retainers
- 61. Shaft Grounding Device
- 62. DE Seal
- 63. DE Seal Type/Size
- 64. ODE Seal
- 65. ODE Seal Type/Size

**Root Cause of Failure**

- 66. Component Failure
- 67. Cause of Failure
- 68. Comments
- 69. Service Technician

**Stator Winding**

- 70. Core Length
- 71. Core ID
- 72. Back Iron Depth
- 73. Slot Depth
- 74. Tooth Width
- 75. Number of Vents
- 76. Vent Width

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77.	Before Burnout Core loss
78.	Flux Before Burnout
79.	Watts before burnout
80.	Watts loss per lb. before burnout
81.	After Burnout Core Loss
82.	Flux After burnout
83.	Watts After Burnout
84.	Watts loss per lb After Burnout
85.	Core Iron Condition
86.	RTD's
87.	RTD's Reading
88.	Motor Heaters
89.	Heater Qty.
90.	Heater Voltage
91.	Heater Wattage
92.	Thermistors
93.	Number of Poles
94.	Slots
95.	Number of Coils
96.	Coil Weight
97.	Lead Markings
98.	Grouping
99.	Multiple Wires
100.	Wire Size
101.	Turns per coil
102.	Pitch 1 to:
103.	Connection
104.	Lead Length
105.	Lead Size
106.	Number of Leads
107.	Megger Reading After Rewind
108.	Coil Machine Slot
109.	Coil Machine Tip
110.	Coil Machine Pitch
111.	Hi Pot Reading After Rewind
112.	Surge Pattern After Rewind
113.	Service Technician
Machine Fit Inspection Report	
114.	Shaft Run Out
115.	Initial Shaft Run Out
116.	Final Shaft Run Out
117.	DE Bearing Shaft Fit
118.	DE Initial Shaft Bearing Fit 1
119.	DE Initial Shaft Fit
120.	DE Finial Shaft Bearing Fit 1
121.	DE Initial Shaft Bearing Fit 2
122.	DE Finial Shaft Bearing Fit 2

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123.	DE Initial Shaft Bearing Fit 3
124.	DE Finial Shaft Bearing Fit 3
125.	ODE Bearing Shaft Fit
126.	ODE Initial Shaft Bearing Fit 1
127.	ODE Finial Shaft Bearing Fit 1
128.	ODE Initial Shaft Bearing Fit 2
129.	ODE Finial Shaft Bearing Fit 2
130.	ODE Initial Shaft Bearing Fit 3
131.	ODE Finial Shaft Bearing Fit 3
132.	DE Air Seal Shaft Fit
133.	DE Initial Air Seal Shaft Size
134.	DE Final Air Seal Shaft Size
135.	ODE Air Seal Shaft Fit
136.	ODE Initial Air Seal Shaft Size
137.	ODE Final Air Seal Shaft Size
138.	DE Endbell Fit
139.	DE Initial Endbell Fit Size 1
140.	DE Final Endbell Fit Size 1
141.	DE Initial Endbell Fit Size 2
142.	DE Finial Endbell Fit Size 2
143.	DE Initial Endbell Fit Size 3
144.	DE Final Endbell Fit Size 3
145.	DE Endbell Fit Insulated
146.	DE Endbell Air Seal Fit
147.	Initial Endbell Air Seal Fit Size
148.	Finial Endbell Air Seal Fit Size
149.	ODE Endbell Fit
150.	ODE Endbell Fit Insulated
151.	ODE Endbell Air Seal Fit
152.	ODE Initial Endbell Seal Fit Size
153.	ODE Finial Endbell Seal Fit Size
154.	Foot Flatness
155.	Foot Condition
156.	Flange Condition
157.	Service Technician
Balancing Report	
158.	Balance Type
159.	Balance Operating Speed
160.	Start Left End
161.	Start Right End
162.	Balancing Specification
163.	Finish Left End
164.	Finish Right End
165.	Service Technician
Assembly and Final Test	
166.	Meggar Testing Reading

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167. Surge Test
168. Hi-Pot
169. Winding Resistance 1-2
170. Winding Resistance 2-3
171. Winding Resistance 1-3
172. Test Run Voltage Phase A
173. Test Run Amps A
174. Test Run Voltage Phase B
175. Test Run Amps B
176. Test Run Voltage Phase C
177. Test Run Amps C
178. DE Horizontal Vibration Reading
179. DE Vertical Vibration Reading
180. DE Axial Vibration Reading
181. ODE Horizontal Vibration Reading
182. ODE Vertical Vibration Reading
183. ODE Axial Vibration Reading
184. Ambient Temp at start of Test Run
185. Temp at 5 minutes
186. Temp at 10 minutes
187. Temp at 15 minutes
188. Temp at 20 minutes
189. Temp at 25 minutes
190. Temp at 30 minutes
191. Temp at 35 minutes
192. Temp at 40 minutes
193. Temp at 45 minutes
194. Temp at 50 minutes
195. Temp at 55 minutes
196. Temp at 60 minutes
197. Motor Paint
198. Service Technician



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8. **WARRANTIES.** Hi-Speed warrants that all goods shall conform in all material aspects to the goods identified in the quotation to Buyer and/or purchase order, and Hi-Speed makes to Buyer the manufacturer's express warranty for any goods sold to Buyer, which is offered by the manufacturer at the time of acceptance of any quotation by Buyer. This warranty is conditioned upon the installation, operation, and maintenance of the goods in accordance with the manufacturer's recommendations and/or standard industry practice and the goods at all times being operated or used under normal operating conditions for which they were designed. Hi-Speed, at its sole option, will repair or

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11. **GOVERNING LAW AND JURISDICTION.** Any controversy arising out of any quotation, the purchase order, the goods sold or delivered, repair or replacement thereof, or any services provided pursuant to any quotation or any purchase order, or these Standard Terms and Conditions shall be governed by the laws of the state of Tennessee without regard to any choice of law provisions and any cause of action related in any manner thereto shall be brought only in the state or federal courts of Shelby County, Tennessee.
12. **ABANDONED EQUIPMENT.** Hi-Speed requires that Buyer promptly pick up or provide shipment instructions for Buyer equipment or other Buyer property in Hi-Speed's possession. If equipment or other Buyer property is left with Hi-Speed and not picked up within six (6) months after Hi-Speed's final action related to the applicable property (e.g. evaluation, teardown, estimate, completion of services), Hi-Speed will consider such property abandoned and may dispose of it in accordance with applicable law. Buyer agrees to hold Hi-Speed harmless for any damage or claim for such abandoned property and acknowledges that Hi-Speed may discard or recycle it at Hi-Speed's sole and absolute discretion. Specifically, Hi-Speed may sell Buyer's abandoned property at a private or public sale and retain the proceeds to offset Hi-Speed's storage, inspection and servicing costs. For the avoidance of doubt, Hi-Speed reserves its statutory and other lawful liens for unpaid charges related to abandoned property.
13. **FORCE MAJEURE.** Neither party shall be responsible for any delay or failure in performance of any party of the quotation, purchase order or these Standard Terms and Conditions to the extent that such delays or failures are caused by fire, flood, earthquake, explosion, war, embargo, government requirement, civil or military authority, acts of God, or any other circumstances beyond its reasonable control and not involving any fault or negligence on the party affected ("Condition"). If any such Condition occurs, the party delayed or unable to perform shall promptly give written notice to the other party and, if such Condition remains at the end of thirty (30) days, the party affected by the other party's delay and inability to perform may elect to (i) terminate such order or part thereof, or (ii) suspend the order for the duration of the Condition, if the Buyer is the suspending party, buy elsewhere comparable material to be sold under the order and apply to any commitment the purchase price of such purchase, and resume performance of the order once the Condition ceases, with an option in the affected party to extend the period of this order up to the length of the time the Condition endures.
14. **NONWAIVER.** No course of dealing or failure of either party to strictly enforce any term, right, or condition of these Standard Terms and Conditions will be construed as a waiver of such term, right or condition. Any waiver by Hi-Speed will only be in writing and will waive no succeeding breach of a term, right or condition.
15. **ASSIGNMENT.** The rights and obligations of the parties shall neither be assigned nor delegated without the prior written consent of the other party. However, any party may assign or delegate its respective rights and obligations, in whole or in part, (i) to any subsidiary, (ii) pursuant to other financing, merger or reorganization or (iii) pursuant to any sale or transfer of substantially all of the assets of the assigning party. These Standard Terms and Conditions shall bind the heirs, successors and assigns of the parties hereto.
16. **NO INDIVIDUAL LIABILITY.** Notwithstanding any other agreement to the contrary, the Buyer agrees that in no event will the Buyer hold and Hi-Speed owner, director, officer or employee personally liable for unintentional tortious conduct or conduct that constitutes the breach of any contract between Hi-Speed and the Buyer, even if the Hi-Speed owner, director, officer or employee is or could be construed to be a party to such contract.