

# **Motor Shop Repairs**

## **Job Number 97975**

Prepared for FUTURE FUEL CHEMICAL

2800 GAP RD HWY 394 SO BATESVILLE AR 72501

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> FolderID: 97975 FormID: 10224665

### **AC Recondition Repair Report**

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

Priorities Found: 3 - High

12 - Good

i nontie.	3 - High	12 - 300d	
General			
1.	Job Number	97975	
2.	Report Date	3/15/2021	
3.	Customer		
Name	Name Plate Information		
4.	Manufacturer	BALDOR	













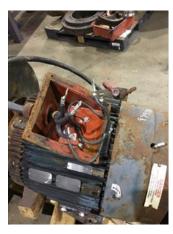






5.	Model	
6.	Serial Number	
7.	Horsepower	75
8.	KW	
9.	Volts	460
10.	Amps	86.9
11.	RPM	1185
12.	Frame	405LPZ
13.	Enclosure	TEFC
14.	Cycles	60

15.	Phase	3
16.	Service Factor	1.15
17.	Motor Mount Position	
Initial	Inspection	
18.	Number of Leads	3
19.	Lead Length	12 Inches
20.	Lead Size	4
<b>2</b> 1.	Lead Condition	(P) Pass



22.	Lead Markings	1-2-3
23.	Lug Size, Condition, and Type	
24.	Winding RTD's	(NA) Not Applicable
25.	Winding Rtd's Condition	(NA) Not Applicable
26.	Shaft Run Out	
27.	Does Shaft Turn Freely	yes
28.	Does Shaft Have Visible Damage	yes



29.	Bearing Rtd's	(NA) Not Applicable
30.	Bearing Rtd's Condition	(NA) Not Applicable
31.	Contamination	
	Water	



32. Frame Condition(P) Pass



33. Fan Condition(P) Pass



34.	Broken or missing components		
Initial	Initial Electric Test		
35.	Resistance to Ground	0 Mohm	
-	Water		
36.	Winding Resistance 1-2		
37.	Winding Resistance 2-3		
38.	Winding Resistance 1-3		

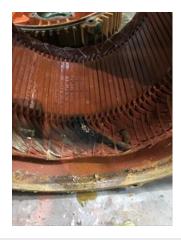
- 39. Resistive Imbalance
- 40. Hi-Pot
- 41. Surge Test
  - Turn to turn short

(F) Fail





42. Stator Condition rewind



43. Failure Location

### **Initial Rotor Inspection**

44. Rotor Type cast aluminum



45. Air Gap <10% Variation





52. Bearing DE Type	double wide double row ball bearing
53. DE Bearing Qty.	1
54. Bearing ODE Size	6313 ZZ





### 55. Bearing ODE Type







56. ODE Bearing Qty.	1
57. Insulated Bearing	no
58. Lubrication Type	grease



59. Grease Condition60. 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
Root	ause of Failure
66.	Component Failure
67.	Cause of Failure
68.	Comments
69.	Service Technician
Machi	e Fit Inspection Report
70.	Shaft Run Out
71.	Initial Shaft Run Out
72.	Final Shaft Run Out
73.	DE Bearing Shaft Fit (P) Pass



74.	DE Initial Shaft Bearing Fit Size 1	3.1501 "
75.	DE Initial Shaft Bearing Fit Size 2	3.1501 "
76.	DE Initial Shaft Bearing Fit Size 3	3.1501 "
77.	DE Finial Shaft Bearing Fit Size 1	
78.	DE Finial Shaft Bearing Fit Size 2	
79.	DE Finial Shaft Bearing Fit Size 3	
<b>8</b> 0.	ODE Bearing Shaft Fit	(P) Pass



81. ODE Initial Shaft Bearing Fit Size 1	2.5591 "
82. ODE Initial Shaft Bearing Fit Size 2	2.5591 "
83. ODE Initial Shaft Bearing Fit Size 3	2.5591 "
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 (F) Fail



94.	DE Initial Endbell Fit Size 1	6.6949 "
95.	DE Initial Endbell Fit Size 2	6.6949 "
96.	DE Initial Endbell Fit Size 3	6.6949 "
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	
<b>1</b> 04.	ODE Endbell Fit	(F) Fail



105. ODE Initial Endbell Fit Size 1	5.5136 "
106. ODE Initial Endbell Fit Size 2	5.5136 "

	ODE Initial Endbell Fit Size 3	5.5136 "
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
<b>116.</b>	Foot Condition	(NA) Not Applicable
117.	Flange Condition	(P) Pass
118.	Service Technician	RW
	R	
	cing Report	
	Balance Type	
	Balance Operating Speed	
	Start Left End	
122.	Start Right End	
	Balancing Specification	
124.	Finish Left End	
125.	Finish Right End	
126.	Service Technician	
Assen	nbly 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	
	Test Run Voltage Phase C	
	Test Run Amps C	
	DE Horizontal Vibration Reading	
	DE Vertical Vibration Reading	
	DE Axial Vibration Reading	
	ODE Horizontal Vibration Reading	
	ODE Vertical Vibration Reading	
	ODE Axial Vibration Reading	
	Ambient Temp at start of Test Run	
	Temp at 5 minutes	
. 10.	- 1 = ::::::: <del>::::=</del>	

147. Temp at 10 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	



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- 1. APPLICABILITY. The sale of any and all goods and/or services by Mock, Inc. d/b/a Hi-Speed Industrial Service ("Hi-Speed") shall be specifically conditioned upon and subject to the following terms and conditions which are incorporated by reference into any contracts and purchase orders with Hi-Speed, and which shall form and become a part of any agreement related thereto. Buyer's acceptance of any offer or quotation made by Hi-Speed for sale of any goods or services is expressly made subject to the terms and conditions set forth herein and to be so effective, Buyer need not sign or approve these Terms and Conditions to be bound hereunder provided a copy of same is provided to Buyer through any means. None of the terms and conditions contained herein may be added to, expanded, changed, modified, superseded or otherwise altered except as revised in writing and duly executed by Hi-Speed, and all orders received by Hi-Speed shall be governed only by the terms and conditions contained herein, notwithstanding any terms, conditions or provisions of any purchase order, release order, authorization or any other form issued by the Buyer. Hi-Speed hereby objects to any additional, modified, changed, deleted, altered or other terms and conditions not contained herein and notifies Buyer that any such terms or provisions are expressly rejected by Hi-Speed.
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- 8. <u>WARRANTIES.</u> 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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- 10. <u>SEVERABILITY.</u> The partial or complete invalidity of any provision of these Standard Terms and Conditions shall not affect the enforceability of the remainder of these Standard Terms and Conditions. If any provision is found to be invalid or unenforceable, that portion shall be modified to make it enforceable or shall be stricken and the remainder of these Standard Terms and Conditions shall enforced.
- 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.
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