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— EVERY DAY SINCE 1946 —

Motor Shop Repairs

**Job Number 99995**

Prepared for PRODUCERS RICE STUTTGART

603 N. PARK AVE  
STUTTGART AR 72160

# Table of Contents



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

**AC Recondition As Found**  
**PRODUCERS RICE STUTTGART**  
603 N. PARK AVE  
STUTTGART, AR 72160

FolderID: 99995  
FormID: 13976198

**AC Recondition - Rev. 2**

**Location:** MOTOR SHOP LR

**Serial Number:** A1701042016

**Description:** 60HP BALDOR 1800RPM 364T

**Hi-Speed Job Number:** 99995

**Manufacturer:** Baldor

**Product Number:** EM4314T

**Spec/ID #:** A36-1126-1822

**Serial Number:** A1701042016

**HP/kW:** 60 (HP)

**RPM:** 1780 (RPM)

**Frame:** 364T

**Voltage:** 230 / 460

**Current:** 140/70

**Phase:** Three

**Hz:** 60 (Hz)

**Service Factor:** 1.15

**Enclosure:** TEFC

**J-box Included:** Complete

**Coupling/Sheave:** None

**Date Received:** 07/01/2022

**Bearing RTDs:** No



**Stator RTDs:** No

**Repair Stage:** Teardown Inspection

**Heaters:** No

**Winding Type :** Random Wound

**Bearing Type:** Rolling Element

Priorities Found:  **6 - High**  **4 - Good**

**Overall Condition**

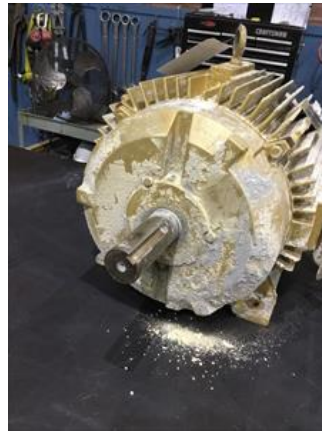
1. Report Date
2. Nameplate Picture

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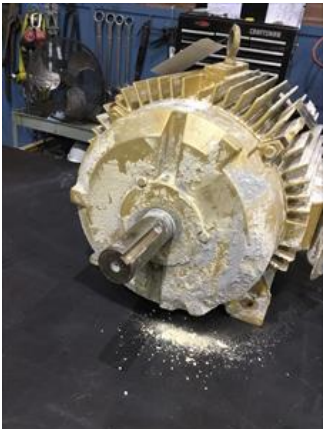
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### 3. Describe the Overall Condition of the Equipment as Received

*Fan cover wasn't on the motor signs of possible grounding on the motor and covered in fire extinguisher dust and fan was melted*



Signs of possible grounding

Initial Mechanical/Electrical		
<input checked="" type="radio"/>	4. Does Shaft Turn Freely?	(Yes) Yes
<input type="radio"/>	5. Does Shaft Have Visible Damage?	(No) No
<input type="radio"/>	6. Assembled Shaft Runout	
<input type="radio"/>	7. Assembled Shaft End Play	
<input type="radio"/>	8. Air Gap Variation <10%	
<input checked="" type="radio"/>	9. Lead Condition	(NA) Not Applicable
<input type="radio"/>	Windings blown	



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10. Lead Length	14 Inches
11. Frame Condition	
12. Fan Condition	(F) Fail



13. Broken or Missing Components	once fan cover bolt was melted and fan is melted
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#### Initial Electrical Inspection

14.	Insulation Resistance/Megger		
15.	Winding Resistance		
	1-2	1-3	2-3
	16.	Perform Surge Test	(NA) Not Applicable
		Blown windings	
17.	Stator Condition		

#### Mechanical Inspection




18. Drive End Bearing Number-	6313
19. Drive End Bearing Qty.	1
20. Drive End Bearing Type	(Ball) Ball Bearing
21. Drive End Lubrication Type	(Grease) Grease Lubricated
22. Drive End Bearing Insulation or Grounding Device?	na
23. Drive End Wavy Washer/Snap-Ring Other Retention Device?	na
24. Drive End Bearing Condition	contamination and improper lubrication
25. Opposite Drive End Bearing Number-	6313
26. Opposite Drive End Bearing Qty.	1
27. Opposite Drive End Bearing Type	(Ball) Ball Bearing
28. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
29. Opposite Drive End Bearing Insulation or Grounding Device?	na
30. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer
31. Opposite Drive End Bearing Condition	contamination and improperly lubricated
32. Drive End Seal	na
33. Opposite Drive End Seal	na

#### Rotor Inspection

34. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
35. Growler Test	(Pass) Pass

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36. Number of Rotor Bars	
37. Rotor Condition	<b>pass</b>
38. List the Parts needed for the Repair Below <i>2-6313 bearings</i> <i>Rewind</i> <i>New fan</i> <i>Machine work on ode bearing fit on shaft</i>	
39. Signature of Technician that Disassembled Motor	<b>Cw</b>
	
<b>Mechanical Fits- Rotor</b>	
40. Shaft Runout	<b>0.004 inches</b>
41. Rotor Runout	
Drive End Bearing Fit	Rotor Body      Opposite Drive End Bearing
42. Coupling Fit Closest to Bearing Housing	
0 Degrees	90 Degrees      120 Degrees
43. Coupling Fit Closest to the end of the Shaft	
0 Degrees	60 Degrees      120 Degrees
44. Drive End Bearing Shaft Fit	
0 Degrees	60 Degrees      120 Degrees
 <b>Pass</b>	
45. Drive End Bearing Shaft Fit Condition	<b>(P) Pass</b>
46. Opposite Drive End Bearing Shaft Fit	
0 Degrees	60 Degrees      120 Degrees
 <b>Fail extensive wear</b>	



47. Opposite Drive End Bearing Shaft Fit Condition	<b>(F) Fail</b>
48. Shaft Air Seal Fits	
Drive End Air Seal	Opposite Drive End Air Seal

## Mechanical Fits- Bearing Housings

49. Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

5.5118

50. Drive End - Endbell Bearing Fit Condition

(P) Pass

51. Opposite Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

5.5119

52. Opposite Drive End - Endbell Bearing Fit Condition

(P) Pass

53. Bearing Cap Condition

Drive End Bearing Cap

Opposite Drive End Bearing Cap

Pass



54. End Bell Air Seal Fits

Drive End Air Seal


Opposite Drive End Air Seal

55. List Machine Work Needed Below

*ODE shaft bearing fit*

56. Technician

Cw



## Root Cause of Failure

57. Failure locations

*Ode bearing shaft fit went down causing rotor to drag iron causing windings to over heat and blow*

58. Root cause of failure

*Ode bearing shaft fit went down causing rotor to drag iron causing windings to over heat and blow*



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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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