



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

LR Motor Shop Repairs

**Job Number 100765**

Prepared for Riceland Foods (11100-RLF)

Hwy 79 & N. Park Ave.  
Stuttgart AR 72160

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AC Recondition As Found - *Motor Shop*

AC Recondition - Rev. 2: *CD0160201-381 88-03406*

**1.0**

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*Printed on 1/13/2023*

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## AC Recondition As Found

Riceland Foods (11100-RLF)

Hwy 79 & N. Park Ave.  
Stuttgart, AR 72160

FolderID: 100765  
FormID: 15675668



### AC Recondition - Rev. 2

Location: Motor Shop  
Serial Number: CD0160201-381 88-03406  
Description: 100HP US MOTORS 1800RPM  
445US

Hi-Speed Job Number:	100765
Manufacturer:	US Motors/Nidec
Spec/ID #:	CD0160201-381 88-03406
Serial Number:	CD0160201-381 88-03406
HP/kW:	100 (HP)
RPM:	1775 (RPM)
Frame:	445US
Voltage:	230 / 460
Current:	236/113
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.0
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: ● 4 - High ● 3 - Good

### Overall Condition

1. Report Date
2. Nameplate Picture



3. Photos of all six sides of the machine.

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4. Describe the Overall Condition of the Equipment as Received

*Very dirty and shaft is locked up*

#### Initial Mechanical/Electrical

5. Does Shaft Turn Freely?	(No) No
6. Does Shaft Have Visible Damage?	(No) No
7. Assembled Shaft Runout	Inches
8. Assembled Shaft End Play	
9. Air Gap Variation <10%	

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10.	Lead Condition	(F) Fail
	Need fixed. Numbers missing on 4 of the leads	



11.	Lead Length	10 Inches
12.	Frame Condition	
13.	Fan Condition	



14.	Broken or Missing Components	
<b>Initial Electrical Inspection</b>		
15.	Insulation Resistance/Megger	
16.	Winding Resistance	
	1-2	2-3

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17. Perform Surge Test

(P) Pass



18. Number of Stator Slots	72 Megohms
19. Stator Condition	
<b>Mechanical Inspection</b>	
20. Drive End Bearing Number-	6313 c3
21. Drive End Bearing Qty.	1
22. Drive End Bearing Type	(Ball) Ball Bearing



23. Drive End Lubrication Type	(Grease) Grease Lubricated
24. Drive End Bearing Insulation or Grounding Device?	
25. Drive End Wavy Washer/Snap-Ring Other Retention Device?	
26. Drive End Bearing Condition	bad
 <i>Bearing has adhesive wear. Grease was hardened</i>	
27. Opposite Drive End Bearing Number-	6313 c3



28. Opposite Drive End Bearing Qty.

1



29. Opposite Drive End Bearing Type

(Ball) Ball Bearing

30. Opposite Drive End Lubrication Type

(Grease) Grease Lubricated

31. Opposite Drive End Bearing Insulation or Grounding Device?

32. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?

33. Opposite Drive End Bearing Condition

bad

☐ *Bearing has abrasive wear. Grease was hardened.*

34. Drive End Seal

35. Opposite Drive End Seal

#### Rotor Inspection

36. Rotor Type/Material

(Squirrel Aluminum) Squirrel  
Cage Aluminum Die Cast



37. Growler Test

(Pass) Pass

38. Number of Rotor Bars

56

39. Rotor Condition

40. List the Parts needed for the Repair Below




41. Signature of Technician that Disassembled Motor

Trevor Hall



#### Mechanical Fits- Rotor

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42.	Shaft Runout	inches	
43.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
44.	Coupling Fit Closest to Bearing Housing		
	0 Degrees	90 Degrees	120 Degrees
45.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
46.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	2.5597	2.5596	2.5596
	47.	Drive End Bearing Shaft Fit Condition	(P) Pass
	48.	Opposite Drive End Bearing Shaft Fit	
		0 Degrees	60 Degrees
		2.5594	2.5595
			2.5595
	49.	Opposite Drive End Bearing Shaft Fit Condition	(P) Pass
	50.	Shaft Air Seal Fits	
		Drive End Air Seal	Opposite Drive End Air Seal
Mechanical Fits- Bearing Housings			
	51.	Drive End - Endbell Bearing Fit	
		0 Degrees	60 Degrees
		5.5145	5.5145
			5.5145
	52.	Drive End - Endbell Bearing Fit Condition	(F) Fail



53. Opposite Drive End - Endbell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
<b>5.5145</b>	<b>5.5145</b>	<b>5.5145</b>



54. Opposite Drive End - Endbell Bearing Fit Condition

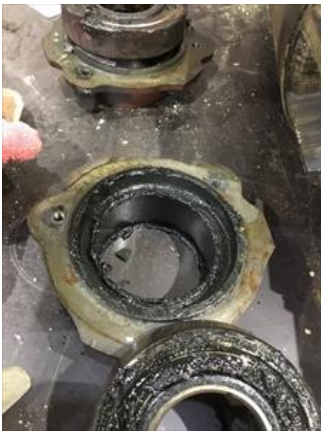
(F) Fail



55. Bearing Cap Condition

Drive End Bearing Cap  
good

Opposite Drive End Bearing Cap  
good



56. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

57. List Machine Work Needed Below  
*Sleeve both end bells*

58. Technician

Trevor Hall



#### Root Cause of Failure

59. Failure locations  
*Endbells and bearings. Fix fan cover*

60. Root cause of failure  
*Normal wear and mixing grease.*



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