

## LR Motor Shop Repairs

## **Job Number 100314**

Prepared for Sage V Foods

5901 SLOAN DRIVE LITTLE ROCK AR 72206

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AC Recondition As Found - MOTOR SHOP LR

AC Recondition - Rev. 2: C0906010023

1.0





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

> FolderID: 100314 FormID: 14607577

#### **AC Recondition As Found**

Sage V Foods 5901 SLOAN DRIVE LITTLE ROCK, AR 72206

AC Recondition - Rev. 2

Location: MOTOR SHOP LR Serial Number: C0906010023

Description: 50HP BALDOR 1800RPM 326TDZ

Hi-Speed Job Number:	100314
Manufacturer:	Baldor
Spec/ID #:	12F654W829G1
Serial Number:	C0906010026
HP/kW:	50 (HP)
RPM:	1775 (RPM)
Frame:	326TDZ
Voltage:	230 / 460
Current:	114/57
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.00
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 1 - High

8 - Good

#### **Overall Condition**

1. Report Date

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#### 2. Nameplate Picture





- 3. Photos of all six sides of the machine.
- 4. Describe the Overall Condition of the Equipment as Received

#### **Initial Mechanical/Electrical**

- 5. Does Shaft Turn Freely? (Yes) Yes
  - 6. Does Shaft Have Visible Damage?
- 7. Assembled Shaft Runout0.123 Inches
  - 8. Assembled Shaft End Play
  - 9. Air Gap Variation <10%





11. Lead Length9 Inches12. Frame Conditionpass

13. Fan Condition (P) Pass



14. Broken or Missing Components

#### **Initial Electrical Inspection**

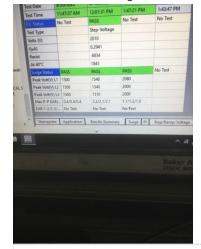
15. Insulation Resistance/Megger 15550 Megohms



16. Winding Resistance			
1-2	1-3	2-3	
.127	.127	.126	

#### 17. Perform Surge Test

(P) Pass



#### 18. Stator Condition





19. Number of Stator Slots

19.	Number of Stator Slots	
Mechanical Inspection		
20.	Drive End Bearing Number-	6312 2RS
21.	Drive End Bearing Qty.	1
22.	Drive End Bearing Type	(Ball) Ball Bearing
23.	Drive End Lubrication Type	(Grease) Grease Lubricated



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

na

26. Drive End Bearing Condition

27. Opposite Drive End Bearing Number-

6311 2RS





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?	na
32. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer
33. Opposite Drive End Bearing Condition	
34. Drive End Seal	improve seal



35. Opposite Drive End Seal

# Rotor Inspection 36. Rotor Type/Material (Squirrel Aluminum) Squirrel Cage Aluminum Die Cast 37. Growler Test 38. Number of Rotor Bars 39. Rotor Condition pass

40. List the Parts needed for the Repair Below Needs new shaft



41. Signature of Technician that Disassembled Motor

RW



#### **Mechanical Fits- Rotor**

42. Shaft Runout 0.123 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	
	47.	Drive End Bearing Shaft Fit Condition			(P) Pass
	48.	Opposite Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
	49.	Opposite Drive End Bearing Shaft Fit	Condition		(P) Pass
	50.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
M	echa	anical Fits- Bearing Housings			
	51.	Drive End - Endbell Bearing Fit			
		0 Degrees	60 Degrees	120 Degrees	
	52.	Drive End - Endbell Bearing Fit Condit	tion		(P) Pass
	53.	Opposite Drive End - Endbell Bearing	Fit		
		0 Degrees	60 Degrees	120 Degrees	
	54.	Opposite Drive End - Endbell Bearing	Fit Condition		(P) Pass
	55.	Bearing Cap Condition			
		Drive End Bearing Cap	Opposite Drive End Bearing Cap		
		pass	na		



56. End Bell Air Seal Fits
Drive End Air Seal
Opposite Drive End Air Seal

57. List Machine Work Needed Below
New shaft



#### **Dynamic Balance Report**

59. Rotor Weight and Balance Grade

Rotor Weight Balance Grade



60.	Initial Balance Readings		
	Drive End	Opposite Drive End	
	0.09	1.07	
61.	Final Balance Readings		
	Drive End	Opposite Drive End	
	013	0.26	
62.	Technician		David Maclin

#### Rewind

63. Core Test Results - Watts loss per Pound

Pre-Burnout Post Burnout

64. Core Hot Spot Test

Pre-Burnout Post-Burnout

- 65. Post Rewind Electrical Test- Insulation Resistance
- 66. Post Rewind Polarization Index
- 67. Post Rewind Winding Resistance

1-2 1-3 2-3

- 68. Post Rewind Surge Test
- 69. Post Rewind Hi-Pot

70	Technician		
	Cause of Failure		
	Failure locations		
	Root cause of failure		
	anical Fits- Rotor - Post Repair		
	Shaft Runout Post Repair		
	Rotor Runout Post Repair		
74.	·	Datar Dady	Opposite Drive End Bearing
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
75.	Coupling Fit Closest to Bearing Housi	ng Post Repair	
	0 Degrees	90 Degrees	120 Degrees
76.	Coupling Fit Closest to the end of the	·	
	0 Degrees	60 Degrees	120 Degrees
77	Drive End Bearing Shaft Fit Post Rep	air	
,,,	0 Degrees	60 Degrees	120 Degrees
	0 Degrees	00 Degrees	120 Degrees
78.	Opposite Drive End Bearing Shaft Fit	Post Repair	
	0 Degrees	60 Degrees	120 Degrees
79.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
80.	Shaft Repair Sign-off		
	anical Fits- Bearing Housings - P	ost Repair	
	Drive End - Endbell Bearing Fit Post I	•	
	0 Degrees	60 Degrees	120 Degrees
	3	13 11	
82.	Opposite Drive End - Endbell Bearing	Fit Post Repair	
	0 Degrees	60 Degrees	120 Degrees
83.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
84.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
85.	End Bell Repair Sign-off		
Asser	· · ·		
	Photograph All Major Components pri	or to assembly	

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87.	Final Insulation Resistance Test			
88.	Assembled Shaft Endplay			0 inches
89.	Assembled Shaft Runout			
90.	Test Run Voltage			
	Volts	Volts	Volts	
	461	458	459	





91. Test Run Amperage		
Amps	Amps	Amps
23	23.2	21.8

92.	92. Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
	0.0321	0.0391	0.0159
93.	Opposite Drive End Vibration Reading	s - Inches Per Second	
	Horizontal	Vertical	Axial
	0.0131	0.0231	0.0083
94.	Ambient Temperature - Fahrenheit		
95.	Drive End Bearing Temps - Fahrenhe	it	
	5 Minutes	10 Minutes	15 Minutes
96.	Opposite Drive End Bearing Temps -	Fahrenheit	
	5 Minutes	10 Minutes	15 Minutes
97.	Final Test Run Sign-off		David Maclin

98. Document Final Condition with Pictures after paint









99. Final Pics and QC Review



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