

# LR Motor Shop Repairs

## **Job Number 102676**

Prepared for Sage V Foods

5901 SLOAN DRIVE LITTLE ROCK AR 72206

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AC Inspection - Rev. 2

1.0



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### **AC Inspection as Found**

Sage V Foods

5901 SLOAN DRIVE LITTLE ROCK, AR 72206

AC Inspection - Rev. 2

Location:

MOTOR SHOP LR

Serial Number:

Description: 100 HP DP RUSH NO O.T.

Hi-Speed Job Number:	102676
Manufacturer:	Baldor
Spec/ID #:	P668771
Serial Number:	A1712192068
HP/kW:	100 (HP)
RPM:	3555 (RPM)
Frame:	365TSC
Voltage:	230 / 460
Current:	224 / 112
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.25
Enclosure:	DP
J-box Included:	None
Coupling/Sheave:	None
Date Received:	03/20/2024
Repair Stage:	Final

Priorities Found: **a** 2 - High

8 - Good

#### **Overall Condition**

03/22/2024 Report Date

Nameplate Picture



Photos of all six sides of the machine.



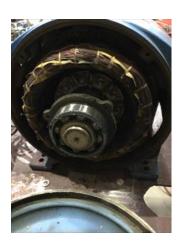






















4. Describe the Overall Condition of the Equipment as Received *Dirty* 

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

5. Does Shaft Turn Freely?

(Y) Yes

6. Does the shaft require T.I.R in Lathe to identify additional repairs?

(No) No



8.	Assembled Shaft Runout	0 Inches
9.	Assembled Shaft End Play	inches
-	Na	
10.	Air Gap Variation <10%	
-	Na	
11.	Lead Condition	(P) Pass



12. Lead Length 16 Inches



# 13. Does it have Lugs?, If so what is the Stud Size? (Yes) Yes 14. Lead Numbers 1-12

15.	Stator Temperature Detector Rating a	nd Function	
	Quantity	Rating	Quantity Passed
-	Na		
16. Bearing Temperature Detector Rating and Function			
	Quantity	Rating	Quantity Passed
	·	-	•
-	Na		
17.	Frame Condition		pass
18.	Fan Condition		(N) NA
19.	Heater Quantity, Ratings		
	Quantity	Volts/Watts	Pass/Fail
-	Na		
20.	Broken or Missing Components		
-	None		
Initial	Electrical Inspection		
21.	Insulation Resistance/Megger		15 Megohms
22.	Winding Resistance		
	1-2	1-3	2-3
	0.1018	0.144	0.246
23.	Perform Surge Test		(F) Fail
-	Rewind		



24. Number of Stator Slots 48

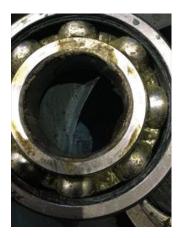
25. Stator Condition Rewind turn to turn short





26.	Stator Thermistors/Ohms	
-	Na	
27.	Stator Overloads/Ohms	
-	Na	
Mecha	nical Inspection	
28.	Drive End Bearing Brand	Peer
29.	Drive End Bearing Number-	6313
30.	Drive End Bearing Qty.	1
31.	Drive End Bearing Type	(Ball) Ball Bearing
32.	Drive End Lubrication Type	(Grease) Grease Lubricated
33.	Drive End Bearing Insulation or Grounding Device?	
-	Na	
34.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	na
35.	Drive End Bearing Condition	axial load





37. Opposite Drive End Bearing Number-	6313
38. Opposite Drive End Bearing Qty.	1
39. Opposite Drive End Bearing Type	(Ball) Ball Bearing
40. Opposite Drive End Lubrication Type (Grease) Grease Lubricated	
41. Opposite Drive End Bearing Insulation or Grounding Device?	
Na	
42. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device	e? no
43. Opposite Drive End Bearing Condition	axial load



44.	Drive End Seal		
-	Na		
45.	Opposite Drive End Seal		
-	Na		
46.	DE Sleeve Bearing Inside Diameter		
	0 degrees	120 degrees	240 degrees
	Na		
47			
47.	DE Sleeve Bearing Outside Diameter		
	0 degrees	120 degrees	240 degrees
-	Na		

48.	DE Sleeve Bearing Housing Inside Dia	ameter		
	0 degrees	120 degrees	240 degrees	
-	Na			
49.	DE Sleeve Bearing to Housing Cleara	nce		
	0 degrees	120 degrees	240 degrees	
-	Na			
50.	ODE Sleeve Bearing Inside Diameter			
	0 degrees	120 degrees	240 degrees	
-	Na			
51.	3			
	0 degrees	120 degrees	240 degrees	
_	.,			
-	Na			
52.	ODE Sleeve Bearing Housing Inside I	Diameter		
	0 degrees	120 degrees	240 degrees	
-	Na			
53.	0 0			
	0 degrees	120 degrees	240 degrees	
_	M-			
-	Na			
Rotor	Rotor Inspection			

(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast



54. Rotor Type/Material

55.	Growler Test	(Pass) Pass
56.	Number of Rotor Bars	38
57.	Rotor Condition	dirty needs washed
58.	List the Parts needed for the Repair Below	
	2-6313 bearings	
59.	Signature of Technician that Disassembled Motor	
Mecha	anical Fits- Rotor	
60.	Shaft Runout	0.0003 inches

61.	Rotor Runout			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
-	Na			
62.	Coupling Fit Closest to Bearing Housing	ng		
	0 Degrees	90 Degrees	120 Degrees	
-	Na			
63.	63. Coupling Fit Closest to the end of the Shaft			
	0 Degrees	60 Degrees	120 Degrees	
-	Na			
64.	Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	2.5594	2.5594	2.5594	
65.	Drive End Bearing Shaft Fit Condition		(P) Pass	



66	66. Opposite Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	2.5592	2.5592	2.5592	
<ul><li>67</li></ul>	67. Opposite Drive End Bearing Shaft Fit Condition			(P) Pass



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68.	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
-	Na			
Mech	Mechanical Fits- Bearing Housings			
69.	Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	5.5135	5.5135	5.5135	
<b>7</b> 0.	Drive End - Endbell Bearing Fit Condi	tion		(F) Fail



71.	71. Opposite Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	5.513	5.513	5.513	
<b>7</b> 2.	72. Opposite Drive End - Endbell Bearing Fit Condition			(P) Pass



73.	Bearing Cap Condition	
	Drive End Bearing Cap	Opposite Drive End Bearing Cap
	pass	pass
74.	End Bell Air Seal Fits	
	Drive End Air Seal	Opposite Drive End Air Seal
-	Na	
75.	List Machine Work Needed Below	
	De end bell bearing fit bad	

76. Technician RW Co witness: CRW **Root Cause of Failure** 77. Failure locations Connection end bottom side of winding close to the iron 78. Root cause of failure Dirty **Dynamic Balance Report** 79. Rotor Weight and Balance Grade Rotor Weight Balance Grade 80. Initial Balance Readings Drive End Opposite Drive End 81. Final Balance Readings Drive End Opposite Drive End 82. Technician Rewind 83. Core Test Results - Watts loss per Pound Pre-Burnout Post Burnout 84. Core Hot Spot Test Post-Burnout Pre-Burnout 85. Post Rewind Electrical Test- Insulation Resistance 86. Post Rewind Polarization Index 87. Post Rewind Winding Resistance 1-3 2-3 88. Post Rewind Surge Test 89. Post Rewind Hi-Pot 90. Technician Mechanical Fits- Rotor - Post Repair 91. Shaft Runout Post Repair 92. Rotor Runout Post Repair Drive End Bearing Fit Rotor Body Opposite Drive End Bearing 93. Coupling Fit Closest to Bearing Housing Post Repair 0 Degrees 90 Degrees 120 Degrees

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60 Degrees

120 Degrees

94. Coupling Fit Closest to the end of the Shaft Post Repair

0 Degrees

95.	5. Drive End Bearing Shaft Fit Post Repair					
	0 Degrees	60 Degrees	120 Degrees			
96.	Opposite Drive End Bearing Shaft Fit	·	400 Damasa			
	0 Degrees	60 Degrees	120 Degrees			
97.	7. Shaft Air Seal Fits Post Repair					
	Drive End Air Seal	Opposite Drive End Air Seal				
	Shaft Repair Sign-off					
	anical Fits- Bearing Housings - P	-				
99.	Drive End - Endbell Bearing Fit Post F		400 5			
	0 Degrees	60 Degrees	120 Degrees			
100.	Opposite Drive End - Endbell Bearing	Fit Post Repair				
	0 Degrees	60 Degrees	120 Degrees			
		G	ŭ			
101.	Bearing Cap Condition Post Repair					
	Drive End Bearing Cap	Opposite Drive End Bearing Cap				
102	End Bell Air Seal Fits Post Repair					
102.	Drive End Air Seal	Opposite Drive End Air Seal				
	Dive End Air Gedi	Opposite Drive End Air Ocal				
103.	DE Sleeve Bearing Inside ID Post Re	pair				
	Measure 1	Measure 2	Measure 3			
404	DE 01 D	<u> </u>				
104.	DE Sleeve Bearing Outside ID Post R	•	Magazina			
	Measure 1	Measure 2	Measure 3			
105.	DE Sleeve Bearing Inside OD Post Repair					
	Measure 1	Measure 2	Measure 3			
106.	DE Sleeve Bearing Outside OD Post					
	Measure 1	Measure 2	Measure 3			
107.	End Bell Repair Sign-off					
	ODE Sleeve Bearing Inside ID Post R	epair				
	Measure 1	Measure 2	Measure 3			
109.	ODE Sleeve Bearing Outside ID Post	•				
	Measure 1	Measure 2	Measure 3			
110	ODE Sleeve Bearing Inside OD Post	Renair				
110.	Measure 1	Measure 2	Measure 3			
111.	ODE Sleeve Bearing Outside OD Post Repair					
	Measure 1	Measure 2	Measure 3			
Α -	A					
	Assembly  112 OC Check All Parts for Claspliness Prior to Assembly					
11/						

112. QC Check All Parts for Cleanliness Prior to Assembly

113.	Photograph All Major Components p	prior to assembly			
	Final Insulation Resistance Test				
115.	Assembled Shaft Endplay				
116.	Assembled Shaft Runout				
117.	Test Run Voltage				
	Volts	Volts	Volts		
118.	Test Run Amperage				
	Amps	Amps	Amps		
440	Drive End Vibration Readings - Inches Per Second				
119.	*		A: - I		
	Horizontal	Vertical	Axial		
120.	Opposite Drive End Vibration Readil	ngs - Inches Per Second			
	Horizontal	Vertical	Axial		
121.	. Ambient Temperature - Fahrenheit				
	Drive End Bearing Temps - Fahrenheit				
	5 Minutes	10 Minutes	15 Minutes		
122	Drive End Bearing Temps - Fahrenh	oit 20 20 Minutos			
123.	20 Minutes	25 Minutes	30 Minutes		
	20 Millutes	25 Millutes	30 Millutes		
124.	Drive End Bearing Temps - Fahrenh	eit 35-45 Minutes			
	35 Minutes	40 Minutes	45 Minutes		
125.	Drive End Bearing Temps - Fahrenh	eit 50-60 Minutes			
	50 Minutes	55 Minutes	60 Minutes		
400	Opposite Drive End Bearing Temps - Fahrenheit				
126.	5 Minutes	10 Minutes	45 Minutes		
	5 Minutes	10 Minutes	15 Minutes		
127.	Opposite Drive End Bearing Temps - Fahrenheit 20-30 Minutes				
	20 Minutes	25 Minutes	30 Minutes		
128.	Opposite Drive End Bearing Temps - Fahrenheit 35-45 Minutes				
	35 Minutes	40 Minutes	45 Minutes		
400	0 " 0 5 10 1 7	E			
129.	Opposite Drive End Bearing Temps		00.14"		
	50 Minutes	55 Minutes	60 Minutes		
130.	Stator Temperatures- Fahrenheit				
	5 Minutes	10 Minutes	15 Minutes		
101	Chater Taranagaturas Fahranhait 20 20 Minutes				
137.	Stator Temperatures- Fahrenheit 20		20 Minutos		
	20 Minutes	25 Minutes	30 Minutes		
132.	Stator Temperatures- Fahrenheit 35	-45 Minutes			
	35 Minutes	40 Minutes	45 Minutes		

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133. Stator Temperatures- Fahre	33. Stator Temperatures- Fahrenheit 50-60 Minutes				
50 Minutes	55 Minutes	60 Minutes			
134. Document Final Condition with Pictures after paint					
135. Final Pics and QC Review					



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