

EVERY DAY SINCE 1946

LR Motor Shop Repairs

Job Number 103535

Prepared for Riceland Foods (11100-RLF)

Hwy 79 & N. Park Ave. Stuttgart AR 72160

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AC Inspection as Found - MOTOR SHOP LR

1.0



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

> FolderID: 103535 FormID: 21696236

AC Inspection as Found

Riceland Foods (11100-RLF) Hwy 79 & N. Park Ave. Stuttgart, AR 72160

AC	Inspection - Rev.	2
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Location:	MOTOR SHOP LR

Serial Number:	C0304210199
Description:75/60	OHP BALDOR 1780/1450RPM

Hi-Speed Job Number:	103535
Manufacturer:	Baldor
Spec/ID #:	14P024W982H1
Serial Number:	C0304210199
HP/kW:	75 (HP)
RPM:	1780 (RPM)
Frame:	365T
Voltage:	230 / 460
Current:	170/85 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.00
Enclosure:	TENV
# of Leads:	9
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	No
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: **3 - High**

🔵 11 - Good

Overall Condition

1. Report Date

09/23/2024



3. Photos of all six sides of the machine.













	4.	<image/>	
		Dirty	
	5.	Report Date [COPY]	
In	itial	Mechanical/Electrical	
	6.	Does Shaft Turn Freely?	(Y) Yes
	7.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
	8.	Does Shaft Have Visible Damage?	(No) No
	9.	Assembled Shaft Runout	Inches
	10.	Assembled Shaft End Play	inches
	11.	Air Gap Variation <10%	

11. Air Gap Variation <10%



13.	Lead Length	12 Inches
14.	Does it have Lugs?, If so what is the Stud Size?	(No) No
15.	Lead Numbers	1-9
16.	Frame Condition	pass
17.	Fan Condition	(P) Pass
18.	Broken or Missing Components	

1 j-box mounting bolt is broke and 2 j-box cover bolts broke



Initial Electrical Inspection



19.	Insulation Resistance/Megger Pass	Megohms
20.	Winding Resistance	
	1-2 1-3	2-3
21.	Perform Surge Test	(P) Pass
23.	Stator Condition	pass
24.	Stator Thermistors/Ohms	
25.	Stator Overloads/Ohms	
	Over load leads are bad needs new leads	
Mecha	anical Inspection	
26.	Drive End Bearing Brand	SKF
27.	Drive End Bearing Number-	6313
28.	Drive End Bearing Qty.	11
29.	Drive End Bearing Type	(Ball) Ball Bearing
30.	Drive End Lubrication Type	(Grease) Grease Lubricated
31.	Drive End Bearing Insulation or Grounding Device?	
	Na	
32.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	spanner nut

33. Drive End Bearing Condition

Wear



34.	Opposite Drive End Bearing Brand	SKF
35.	Opposite Drive End Bearing Number-	6312
36.	Opposite Drive End Bearing Qty.	1
37.	Opposite Drive End Bearing Type	(Ball) Ball Bearing
38.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
39.	Opposite Drive End Bearing Insulation or Grounding Device?	
40.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer
41.	Opposite Drive End Bearing Condition	
	Wear	



42. Drive End Seal

43. Opposite Drive End Seal

Rotor Inspection			
44.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
45.	Growler Test	(Pass) Pass	
46.	Number of Rotor Bars		
47.	Rotor Condition	pass	
48.	List the Parts needed for the Repair Below		
	6313 6312 New over load		

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Mechanical Fits- Rotor				
50.	Shaft Runout			inches
51.	Rotor Runout			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End E	Bearing
52.	Coupling Fit Closest to Bearing Housi			
	0 Degrees	90 Degrees	120 Degrees	
53	Coupling Fit Closest to the end of the	Shaft		
00.	0 Degrees	60 Degrees	120 Degrees	
	0 2091000	00 2091000	120 2091000	
54.	Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	2.5593	2.5593	2.5593	
5 5.	Drive End Bearing Shaft Fit Condition			(P) Pass
56.	Opposite Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	2.362	2.3622	2.3622	
5 7.	11 0	Condition		(P) Pass
58.	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
Maak	enical Fite Descina Henrica			
	anical Fits- Bearing Housings			
59.	Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
60	5.5125 Drive End - Endbell Bearing Fit Condi	5.5125	5.5124	(P) Pass
	Opposite Drive End - Endbell Bearing			(F) Fass
01.	0 Degrees	60 Degrees	120 Degrees	
	5.1184	5.1185	5.1184	
62.	Opposite Drive End - Endbell Bearing	Fit Condition		(P) Pass
	Bearing Cap Condition			()
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
64.	End Bell Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
65.	List Machine Work Needed Below			

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-	ZA		
73.	QC Check All Parts for Cleanliness Pr	ior to Assembly	Trevor Hall
Assen	nbly		
72.	Technician		Trever
	0.3	0.2	
	Drive End	Opposite Drive End	
71.	Final Balance Readings		
	Na		
	Drive End	Opposite Drive End	
70.	Initial Balance Readings		
	Na		
	Rotor Weight	Balance Grade	
69.	Rotor Weight and Balance Grade		
Dynan	nic Balance Report		
68.	Root cause of failure <i>Wear</i>		
67.	Failure locations Bearings, leads, and some bolts are bro	ke from j-box	
Root (Cause of Failure		
-	Co sign: DM		

74. Photograph All Major Components prior to assembly













• 75	. Final Insulation Resistance Test		Megohms
76	. Assembled Shaft Endplay		inches
77	7. Assembled Shaft Runout		inches
78	. Test Run Voltage		
	Volts	Volts	Volts



79. Test Run Amperage		
Amps	Amps	Amps
Witnessed by RRW		
PHENIA		
TECHNOLOGIES		
8/9/01 8/5 (0) 4/5 (0)		
0461 0459 0463		
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80.	Drive End Vibration Readings - Inches Per Second				
	Horizontal	Vertical	Axial		
	0.03	0.01	0.05		
81.	. Opposite Drive End Vibration Readings - Inches Per Second				
	Horizontal	Vertical	Axial		
	0.01	0.02	0.04		
82.	. Ambient Temperature - Fahrenheit				
83.	 Drive End Bearing Temps - Fahrenheit 				
	5 Minutes	10 Minutes	15 Minutes		
	5 Minutes	10 Minutes	15 Minutes		
84.	5 Minutes Opposite Drive End Bearing Temps -		15 Minutes		
84.			15 Minutes 15 Minutes		
84.	Opposite Drive End Bearing Temps -	Fahrenheit			







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86. Final Pics and QC Review
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Co sign: RRW



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TermsAndConditions

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- 11. <u>GOVERNING LAW AND JURISDICTION.</u> 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.
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