

AC Inspection as Found Riceland Foods (11100-RLF) Hwy 79 & N. Park Ave.

Stuttgart, AR 72160

FolderID: 104790 FormID: 24885368

AC Inspection - Rev. 2

MOTOR SHOP LR Location: Serial Number: CAT# X100E3B Description: 100 HP EMERSON

Hi-Speed Job Number:	104790
Manufacturer:	Emerson
Product Number:	AC19
Spec/ID #:	K06-AC19-M
Serial Number:	CAT# X100E3B
HP/kW:	100 (HP)
RPM:	1185 (RPM)
Frame:	444T
Voltage:	460
Current:	128 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.00
Enclosure:	TE
# of Leads:	6
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	Yes
Shaft Machined Fit Repairs Required:	Yes
Bearing Housing Machined Fit Repairs Required:	Yes
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 4 - High





8 - Good

Overall Condition

Report Date

0

07/07/2025

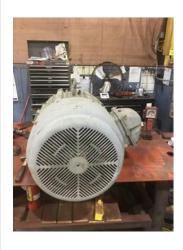
2. Nameplate Picture





3. Photos of all six sides of the machine.









































 Describe the Overall Condition of the Equipment as Received Serviceable

5. Is this a UL Listed Motor
 (YES) YES
 P83



6. Is the motor water cooled or can be pressure checked before teardown		(NO) NO	
Initial Mechanical/Electrical		Ō	
7 .	Does Shaft Turn Freely?	(N) No	
8.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(YES) YES	

Does Shaft Have Visible Damage?





10.	Assembled Shaft Runout	Inches
-	Unable to perform due to locked shaft.	
11.	Assembled Shaft End Play	0 inches
12.	Air Gap Variation <10%	
13.	Lead Condition	P70



	14.	Lead Length	9.5 Inches	
15. Does it have Lugs?, If so what is the Stud Size?		(YES) YES		
16. Lead Numbers		1-6		
	-	Delta connection		
	17.	Are the Leads insulated with Chico or other material	(YES) YES	
	18.	Frame Condition	pass	
	19.	Fan Condition	(P) Pass	P120



20. Does motor have internal fan?

(NO) NO

21. Broken or Missing Components

DE bearing cap broken

P128



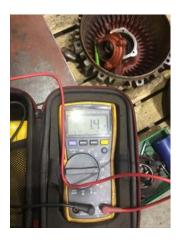


Initial Electrical Inspection 22. Insulation Resistance/Megger All Winding Resistance 1-2 1-3 2-3

24. Perform Surge Test (NA) Not Applicable P59



25.	Number of Stator Slots	72	
26.	Stator Condition	rewind	
27.	Stator Thermistors/Ohms		



Mechanical Inspection			o
29.	Drive End Bearing Brand	unreadable	
30.	Drive End Bearing Number-	6220-J/C3	
31.	Drive End Bearing Qty.	1	P34



	(Ball) Ball Bearing	32. Drive End Bearing Type
	(Grease) Grease Lubricated	33. Drive End Lubrication Type
	none	34. Drive End Bearing Insulation or Grounding Device?
	snap ring	35. Drive End Wavy Washer/Snap-Ring Other Retention Device?
P82	excessive wear	36. Drive End Bearing Condition



37. Opposite Drive End Bearing Brand

unreadable







40.	Opposite Drive End Bearing Type	(Ball) Ball Bearing	
41.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
42.	Opposite Drive End Bearing Insulation or Grounding Device?	none	
43.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?		
44.	Opposite Drive End Bearing Condition	worn	
45.	Drive End Seal		
46.	Opposite Drive End Seal		

Rotor Inspection

O

47. Rotor Type/Material (Squirrel Aluminum) Squirrel P3
Cage Aluminum Die Cast



48.	Growler Test	(Pass) Pass
49.	Number of Rotor Bars	57
50.	Rotor Condition	pass

51. List the Parts needed for the Repair Below Possible new shaft and new DE bearing cap.

Possible new shaft and new DE bearing cap. Machine shaft opening on DE housing Both end bell housing fits bad.

52. Signature of Technician that Disassembled Motor

Terrence Holland



Mechanical Fits- Rotor				
53.	53. Shaft Runout		0.003 inches	
54.	Rotor Runout			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
55.	Coupling Fit Closest to Bearing H	ousing		
	0 Degrees	90 Degrees	120 Degrees	
56.	Coupling Fit Closest to the end of	the Shaft		
	0 Degrees	60 Degrees	120 Degrees	
57.	Drive End Bearing Shaft Fit			P79
	0 Degrees	60 Degrees	120 Degrees	



50	Drive End Bearing Shaft Eit Cond	ition		(E) Fail
58.	Drive End Bearing Shaft Fit Cond			(F) Fail
59.	Opposite Drive End Bearing Shafe	t Fit		
	0 Degrees	60 Degrees	120 Degrees	
	2.5595	2.5595	2.5596	
60.	Opposite Drive End Bearing Shaf	t Fit Condition		(P) Pass
61.	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		

Mechanical Fits- Bearing Housings

62.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees

Excessive wear

63. Drive End - Endbell Bearing Fit Condition
 (F) Fail

64	4.	Opposite Drive End - Endbell Bea	ring Fit	
		0 Degrees	60 Degrees	120 Degrees
		•	-	
-		Excessive wear.		
6 :	5.	Opposite Drive End - Endbell Bear	ring Fit Condition	(F) Fail
60		Bearing Cap Condition		. ,
		Drive End Bearing Cap	Opposite Drive End Bearing Cap	
		destroyed	good	
6		End Bell Air Seal Fits		
		Drive End Air Seal	Opposite Drive End Air Seal	
		excessive wear		
68		List Machine Work Needed Below		
	_	New bearing cap		
		Repair both housing fits Repair shaft opening air seal fit Machine new snap ring groove.		
69	9.	Technician		Terrence Holland
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	7		ν	
	/	//_		
/		7- 3-		
		,	,	
		Co sign: RRW		
,		ause of Failure		
		Failure locations		
/ /	_	Windings shorted on coil head.		
		Both housing fits bad D.E cap broken.		
7	1.	Root cause of failure		
		Bearing cap fragments impacted the	e windings causing a short circuit.	
Dyna	ami	c Balance Report		
7:	2.	Rotor Weight and Balance Grade		
		Rotor Weight	Balance Grade	
7:	3.	Initial Balance Readings		
		Drive End	Opposite Drive End	
74	4.	Final Balance Readings		
		Drive End	Opposite Drive End	
7	5.	Technician		
Rew				
		Core Test Results - Watts loss per	r Pound	
		Pre-Burnout	Post Burnout	
		Daillout		
7	7.	Core Hot Spot Test		
,		Pre-Burnout	Post-Burnout	
		r ie-Duillout	r ost-dufficut	
7	0	Post Powind Floatrical Tast Jacob	otion Posistones	
/3	8.	Post Rewind Electrical Test- Insula	ation Resistance	

	B (B (181) (18)				
79.	Post Rewind Polarization Index				
80.	Post Rewind Winding Resistance				
	1-2	1-3	2-3		
81.	Post Rewind Surge Test				
82.	THERMAL DETECTION EQUIPM RTD'S/KLIXONS/THERMISTORS				
83.	Post Rewind Hi-Pot				
84.	Technician				
Mechai	nical Fits- Rotor - Post Repair				
85.	Shaft Runout Post Repair				
86.	Rotor Runout Post Repair				
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing		
	2o 2a 20ag		opposite 2.110 2.11a 2.0a.ig		
87.	Coupling Fit Closest to Bearing Ho	pusing Post Repair			
01.	0 Degrees	90 Degrees	120 Degrees		
	0 Degrees	30 Degrees	120 Degrees		
88.	Coupling Fit Closest to the end of	the Shaft Post Repair			
00.	O Degrees	60 Degrees	120 Degrees		
	0 Degrees	60 Degrees	120 Degrees		
89.	Drive End Bearing Shaft Fit Post F	Popoir			
69.	•	•	400 Danie		
	0 Degrees	60 Degrees	120 Degrees		
90.	Opposite Drive End Bearing Shaft				
	0 Degrees	60 Degrees	120 Degrees		
91.	Shaft Air Seal Fits Post Repair				
	Drive End Air Seal	Opposite Drive End Air Seal			
00	Chaft Danair Ciara aff				
	Shaft Repair Sign-off	Part Parair			
	nical Fits- Bearing Housings -	•			
93.	Drive End - Endbell Bearing Fit Po	·			
	0 Degrees	60 Degrees	120 Degrees		
94.	Opposite Drive End - Endbell Bear				
	0 Degrees	60 Degrees	120 Degrees		
95.	Bearing Cap Condition Post Repair				
	Drive End Bearing Cap	Opposite Drive End Bearing Cap			
96.	End Bell Air Seal Fits Post Repair				
	Drive End Air Seal	Opposite Drive End Air Seal			
97.	End Bell Repair Sign-off				
Assem	bly				
00					
98.	QC Check All Parts for Cleanlines	s Prior to Assembly			
98.	QC Check All Parts for Cleanlines Photograph All Major Components	·			

	Final Insulation Resistance Test						
	. Assembled Shaft Endplay						
103.	. Assembled Shaft Runout						
104.	Test Run Voltage						
	Volts	Volts	Volts				
405	T (D A						
105.	Test Run Amperage						
	Amps	Amps	Amps				
106	Motor RPM						
	Drive End Vibration Readings - Inches Per Second						
107.	Horizontal	Vertical	Axial				
	Honzontai	vertical	Axiai				
108.	Opposite Drive End Vibration Readings - Inches Per Second						
	Horizontal	Vertical	Axial				
109.	Ambient Temperature - Fahrenheit						
110.	Drive End Bearing Temps - Fahrenheit						
	5 Minutes	10 Minutes	15 Minutes				
111.	Opposite Drive End Bearing Temps - Fahrenheit						
	5 Minutes	10 Minutes	15 Minutes				
112	Document Final Condition wit	a Dictures after paint					
	112. Document Final Condition with Pictures after paint						
113.	Final Pics and QC Review						

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