

AC Inspection as Found Tyson Foods (10914)

1238 Market Street Clarksville, AR 72830

FolderID: 104415 FormID: 24037883

AC Inspection - Rev. 2

LR MOTOR SHOP Location:

Serial Number: 12H013Y276

Description: 40 HP BALDOR

Hi-Speed Job Number:	104415
Manufacturer:	Baldor
Product Number:	CAT#EM4110T
Serial Number:	12H013Y276
HP/kW:	40 (HP)
RPM:	1775 (RPM)
Frame:	324T
Voltage:	230 / 460
Current:	96 / 48 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.0
Enclosure:	TEFC
# of Leads:	9
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	Yes
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: 1 - High



14 - Good

Overall Condition

0

Report Date

04/18/2025

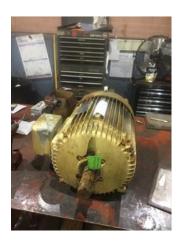
2. Nameplate Picture





3. Photos of all six sides of the machine.





























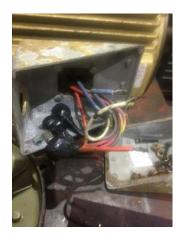




 Describe the Overall Condition of the Equipment as Received Serviceable

	5.	Is this a UL Listed Motor	(No) No
	6.	Is the motor water cooled or can be pressure checked before teardown	(No) No
In	itial I	Mechanical/Electrical	Ō
	7.	Does Shaft Turn Freely?	(Y) Yes
	8.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
	9.	Does Shaft Have Visible Damage?	(No) No
	10.	Assembled Shaft Runout	0.002 Inches
	11.	Assembled Shaft End Play	0 inches
	12.	Air Gap Variation <10%	





14.	Lead Length	11 Inches	
15.	Does it have Lugs?, If so what is the Stud Size?	(No) No	
16.	Lead Numbers	1-9	
17.	Are the Leads insulated with Chico or other material	(No) No	
18.	Frame Condition	pass	
19.	Fan Condition	(P) Pass	P115



20. Does motor have internal fan?
(No) No

21. Broken or Missing Components

Initial Electrical Inspection

22. Insulation Resistance/Megger Megohms P8

0







24. Perform Surge Test(F) FailP57





0

SKF



25.	Number of Stator Slots	48
26.	Stator Condition	rewind

27. Stator Thermistors/Ohms

28. Stator Overloads/Ohms

Mechanical Inspection

29. Drive End Bearing Brand





31.	Drive End Bearing Qty.	1	
32.	Drive End Bearing Type	(Ball) Ball Bearing	
33.	Drive End Lubrication Type	(Grease) Grease Lubricated	
34.	Drive End Bearing Insulation or Grounding Device?	none	
35.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	none	
36.	Drive End Bearing Condition	evidence of frosting	
37.	Opposite Drive End Bearing Brand	FAG	P92



38. Opposite Drive End Bearing Number-

6311 C3



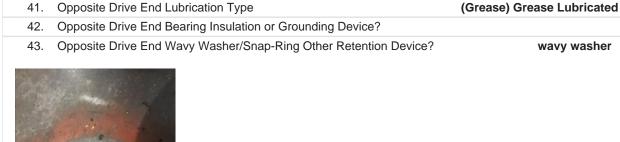




39. Opposite Drive End Bearing Qty.

40. Opposite Drive End Bearing Type

(Ball) Ball Bearing





44. Opposite Drive End Bearing Condition

evidence of frosting on inner
and outer races

45. Drive End Seal

VA-055

P120



46. Opposite Drive End Seal

Rotor Inspection

0

47. Rotor Type/Material

(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast

P3

P114



48. Growler Test (Pass) Pass

49. Number of Rotor Bars

50. Rotor Condition

pass

51. List the Parts needed for the Repair Below
1) 6312/C3
1) 6311/C3
Rewind stator

52. Signature of Technician that Disassembled Motor

Terrence Holland

La Jelle of

IVI		winel Fite Deter			
141		nical Fits- Rotor		0.000	
	53.	Shaft Runout		0.002 inches	
	54.	Rotor Runout			
		Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
	55.	Coupling Fit Closest to Bearing H	-		
		0 Degrees	90 Degrees	120 Degrees	
	56.	Coupling Fit Closest to the end of			
		0 Degrees	60 Degrees	120 Degrees	
	57.	Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
		2.3625	2.3626	2.2625	
	58.	Drive End Bearing Shaft Fit Cond	ition	(P) Pass	
	59.	Opposite Drive End Bearing Shafe	t Fit		
		0 Degrees	60 Degrees	120 Degrees	
		2.1659	2.1659	2.1659	
	60.	2.1659 Opposite Drive End Bearing Shaf		2.1659 (P) Pass	
	60. 61.				
		Opposite Drive End Bearing Shaf			
		Opposite Drive End Bearing Shaft Shaft Air Seal Fits	t Fit Condition		
M	61.	Opposite Drive End Bearing Shaft Shaft Air Seal Fits	t Fit Condition		
M	61. echa	Opposite Drive End Bearing Shaft Shaft Air Seal Fits Drive End Air Seal	t Fit Condition		
M	61. echa	Opposite Drive End Bearing Shaf Shaft Air Seal Fits Drive End Air Seal nical Fits- Bearing Housings	t Fit Condition		
M	61. echa	Opposite Drive End Bearing Shaf Shaft Air Seal Fits Drive End Air Seal nical Fits- Bearing Housings Drive End - Endbell Bearing Fit	t Fit Condition Opposite Drive End Air Seal	(P) Pass	
M	61. echa	Opposite Drive End Bearing Shaft Shaft Air Seal Fits Drive End Air Seal nical Fits- Bearing Housings Drive End - Endbell Bearing Fit 0 Degrees	t Fit Condition Opposite Drive End Air Seal 60 Degrees 5.1182	(P) Pass 120 Degrees	
M	61. echa 62.	Opposite Drive End Bearing Shaft Shaft Air Seal Fits Drive End Air Seal nical Fits- Bearing Housings Drive End - Endbell Bearing Fit 0 Degrees 5.1184	t Fit Condition Opposite Drive End Air Seal 60 Degrees 5.1182 ondition	(P) Pass 120 Degrees 5.1182	
M	61. echal 62.	Opposite Drive End Bearing Shaft Shaft Air Seal Fits Drive End Air Seal nical Fits- Bearing Housings Drive End - Endbell Bearing Fit 0 Degrees 5.1184 Drive End - Endbell Bearing Fit C	t Fit Condition Opposite Drive End Air Seal 60 Degrees 5.1182 ondition	(P) Pass 120 Degrees 5.1182	
M	61. echal 62.	Opposite Drive End Bearing Shaft Shaft Air Seal Fits Drive End Air Seal nical Fits- Bearing Housings Drive End - Endbell Bearing Fit 0 Degrees 5.1184 Drive End - Endbell Bearing Fit C Opposite Drive End - Endbell Bear	t Fit Condition Opposite Drive End Air Seal 60 Degrees 5.1182 ondition aring Fit	120 Degrees 5.1182 (P) Pass	
M	61. echal 62.	Opposite Drive End Bearing Shaft Shaft Air Seal Fits Drive End Air Seal nical Fits- Bearing Housings Drive End - Endbell Bearing Fit 0 Degrees 5.1184 Drive End - Endbell Bearing Fit C Opposite Drive End - Endbell Bear 0 Degrees	60 Degrees 5.1182 ondition aring Fit 60 Degrees 4.7251	120 Degrees 5.1182 (P) Pass	
M	61. echa 62. 63. 64.	Opposite Drive End Bearing Shaft Shaft Air Seal Fits Drive End Air Seal nical Fits- Bearing Housings Drive End - Endbell Bearing Fit O Degrees 5.1184 Drive End - Endbell Bearing Fit C Opposite Drive End - Endbell Bear O Degrees O Degrees 4.725	60 Degrees 5.1182 ondition aring Fit 60 Degrees 4.7251	120 Degrees 5.1182 (P) Pass 120 Degrees 4.72	
M	61. echal 62. 63. 64.	Opposite Drive End Bearing Shaft Shaft Air Seal Fits Drive End Air Seal nical Fits- Bearing Housings Drive End - Endbell Bearing Fit O Degrees 5.1184 Drive End - Endbell Bearing Fit C Opposite Drive End - Endbell Bea O Degrees 4.725 Opposite Drive End - Endbell Bea	60 Degrees 5.1182 ondition aring Fit 60 Degrees 4.7251	120 Degrees 5.1182 (P) Pass 120 Degrees 4.72 (P) Pass	

67.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
68.	List Machine Work Needed Below		
	Two broken bolts on connection bo	x. Drill and tap connection box cover be	olt holes
69.	Technician		Terrence Holland
		- // 0	
	7 7/		
/2	- L/-	Wel	
		ł	
-	Co sign: CRW		
Root C	ause of Failure		
70.	Failure locations		
	Windings shorted. Both bearings h	ave frosting.	
71.	Root cause of failure		
	Windings shorted between phases.		
Dynam	ic Balance Report		
72.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
73.	Initial Balance Readings		
	Drive End	Opposite Drive End	
74.	Final Balance Readings		
	Drive End	Opposite Drive End	
75.	Technician -		
Rewind			
76.	Core Test Results - Watts loss per		
	Pre-Burnout	Post Burnout	
	0 11 10 17 1		
77.	Core Hot Spot Test	Deat Death	
	Pre-Burnout	Post-Burnout	
78.	Post Rewind Electrical Test- Insula	ation Posistance	
76. 79.	Post Rewind Polarization Index	ation Resistance	
80.	Post Rewind Winding Resistance		
00.	1-2	1-3	2-3
	1 4		20
81.	Post Rewind Surge Test		
82.	Post Rewind Hi-Pot		
83.	Technician		
Assem			
84.	QC Check All Parts for Cleanlines	s Prior to Assembly	
85.	Photograph All Major Components	•	

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

86. Final Insulation Resistance Test

87.	Assembled Shaft Endplay			
88.	Assembled Shaft Runout			
89.	Test Run Voltage			
	Volts	Volts	Volts	
90.	Test Run Amperage			
	Amps	Amps	Amps	
91.	Drive End Vibration Reading	ngs - Inches Per Second		
	Horizontal	Vertical	Axial	
92.	Opposite Drive End Vibration Readings - Inches Per Second			
	Horizontal	Vertical	Axial	
93.	Ambient Temperature - Fa	hrenheit		
94.	Drive End Bearing Temps	- Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes	
95.	Opposite Drive End Bearin	g Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes	
96.	Document Final Condition	with Pictures after paint		
97.	Final Pics and QC Review			