

LR Motor Shop Repairs

Job Number 103673

Prepared for Tyson Foods (10914)

1238 Market Street Clarksville AR 72830

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AC Inspection as Found - MOTOR SHOP LR

AC Inspection - Rev. 2: C2402201397

1.0





AC Inspection as Found

Tyson Foods (10914)

1238 Market Street Clarksville, AR 72830

FolderID: 103673 FormID: 22045804

7030 Ryburn Dr Millington, Tn 38053 901-873-5300

AC Inspection - Rev. 2

Location: MOTOR SHOP LR Serial Number: C2402201397

Description: 50HP BALDOR 1775RPM

Hi-Speed Job Number:	103673
Manufacturer:	Baldor
Product Number:	CAT: EM4115T
Spec/ID #:	12HO13Z279G1
Serial Number:	C2402201397
HP/kW:	50 (HP)
RPM:	1775 (RPM)
Frame:	326T
Voltage:	230 / 460
Current:	116/58 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.00
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:	Yes
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element
0 0 0 0 0 1	





6 - Good

Overall Condition

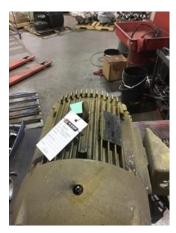
11/08/2024 1. Report Date

2. Nameplate Picture



3. Photos of all six sides of the machine.



































	4.	Describe the Overall Condition of the Equipment as Received	
		Serviceable	
		Serviceable	
In	Initial Mechanical/Electrical		
	5.	Does Shaft Turn Freely?	(N) No
	6.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
	7.	Does Shaft Have Visible Damage?	(No) No
	8.	Assembled Shaft Runout	Inches
	9.	Assembled Shaft End Play	inches
	10.	Air Gap Variation <10%	
	11.	Lead Condition	(P) Pass



12.	Lead Length	18 Inches
13.	Does it have Lugs?, If so what is the Stud Size?	(No) No
14.	Lead Numbers	1-9
15.	Frame Condition	pass





17. Broken or Missing Components

J-box cover bolts are broke

Initial Electrical Inspection

18. Insulation Resistance/Megger Megohms

19. Winding Resistance

1-2 1-3 2-3

20. Perform Surge Test(NA) Not Applicable

Blown in slot

21. Number of Stator Slots

Na

22. Stator Condition core repair required

23. Stator Thermistors/Ohms

24. Stator Overloads/Ohms

Mechanical Inspection

25. Drive End Bearing Brand

26. Drive End Bearing Number-



27. Drive End Bearing Qty.	1
28. Drive End Bearing Type	(Ball) Ball Bearing
29. Drive End Lubrication Type	(Grease) Grease Lubricated
30. Drive End Bearing Insulation or Grounding Device?	

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- 31. Drive End Wavy Washer/Snap-Ring Other Retention Device?
- 32. Drive End Bearing Condition
- Signs of contamination



- 33. Opposite Drive End Bearing Brand
- 34. Opposite Drive End Bearing Number-

6311



35. Opposite Drive End Bearing Qty.	1
36. Opposite Drive End Bearing Type	(Ball) Ball Bearing
37. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
38. Opposite Drive End Bearing Insulation or Grounding Device?	
39. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	
40. Opposite Drive End Bearing Condition	signs of contamination



41.	Drive End Seal	
42.	Opposite Drive End Seal	
Rotor	Inspection	
43.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
44.	Growler Test	(Pass) Pass
45.	Number of Rotor Bars	40
46.	Rotor Condition	needs cleaned
47.	List the Parts needed for the Repair Below	
	6312 6311 Shaft material 3in by 36in 1045 steel	
48.	Signature of Technician that Disassembled Motor	Cw

Mech	anical Fits- Rotor			
49.	Shaft Runout		inches	
50.	Rotor Runout			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
51.	51. Coupling Fit Closest to Bearing Housing			
	0 Degrees	90 Degrees	120 Degrees	
52.	2. Coupling Fit Closest to the end of the Shaft			
	0 Degrees	60 Degrees	120 Degrees	
53.	Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
-	Excessive wear			
54.	Drive End Bearing Shaft Fit Condition		(F) Fail	

	55.	Opposite Drive End Bearing Shaft Fit		
		0 Degrees	60 Degrees	120 Degrees
	-	Shaft needs replaced		
	56.	Opposite Drive End Bearing Shaft Fit	Condition	(F) Fail
		Shaft Air Seal Fits		(.)
		Drive End Air Seal	Opposite Drive End Air Seal	
M	echa	anical Fits- Bearing Housings		
		Drive End - Endbell Bearing Fit		
		0 Degrees	60 Degrees	120 Degrees
		5.1192	5.1189	5.119
	59.			(P) Pass
Ť		Opposite Drive End - Endbell Bearing		()
		0 Degrees	60 Degrees	120 Degrees
		4.7255	4.7249	4.7251
	61.	Opposite Drive End - Endbell Bearing	Fit Condition	(P) Pass
	62.	Bearing Cap Condition		,
		Drive End Bearing Cap	Opposite Drive End Bearing Cap	
		0 1	0 1	
	-	DE cap air gap needs buffed		
	63.	End Bell Air Seal Fits		
		Drive End Air Seal	Opposite Drive End Air Seal	
•	64.	List Machine Work Needed Below		
		New shaft		
	-	Co sign: RRW		
R	oot (Cause of Failure		
	66.	Failure locations		
		Bearings, shaft, windings, and iron		
	67.	. Root cause of failure DE bearing shaft fit had a catastrophic failure causing rotor to drop on iron and causing windings to blow in slot causing core damage		
D	ynar	nic Balance Report		
	-	Rotor Weight and Balance Grade		
		Rotor Weight	Balance Grade	
	69.	Initial Balance Readings		
		Drive End	Opposite Drive End	
	70.	Final Balance Readings		
		Drive End	Opposite Drive End	

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71	Technician				
Rewin					
	72. Core Test Results - Watts loss per Pound				
12.	Pre-Burnout	Post Burnout			
	i ie-Buillout	1 OSt Bullout			
73.	Core Hot Spot Test				
	Pre-Burnout	Post-Burnout			
74.	Post Rewind Electrical Test- Insulatio	n Resistance			
75.	Post Rewind Polarization Index				
76.	Post Rewind Winding Resistance				
	1-2	1-3	2-3		
	Post Rewind Surge Test				
	Post Rewind Hi-Pot				
	Technician				
	anical Fits- Rotor - Post Repair				
	Shaft Runout Post Repair				
81.	Rotor Runout Post Repair				
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing		
82.	Coupling Fit Closest to Bearing Housing Post Repair				
	0 Degrees	90 Degrees	120 Degrees		
83. Coupling Fit Closest to the end of the Shaft Post Repair					
	0 Degrees	60 Degrees	120 Degrees		
84.	Drive End Bearing Shaft Fit Post Rep	air			
	0 Degrees	60 Degrees	120 Degrees		
0.5	Opposite Drive Ford Decrine Chaft Fit	Doot Donois			
85.	11	•	420 Daggara		
	0 Degrees	60 Degrees	120 Degrees		
86.	Shaft Air Seal Fits Post Repair				
	Drive End Air Seal	Opposite Drive End Air Seal			
		,,			
87.	Shaft Repair Sign-off				
Asser	nbly				
88.	QC Check All Parts for Cleanliness P	rior to Assembly			
89.	89. Photograph All Major Components prior to assembly				
90.	90. Final Insulation Resistance Test				
91.	Assembled Shaft Endplay				
92.	Assembled Shaft Runout				
93.	Test Run Voltage				
	Volts	Volts	Volts		
94.	Test Run Amperage				
· · ·	Amps	Amps	Amps		

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95.	95. Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
96.	96. Opposite Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
97.	97. Ambient Temperature - Fahrenheit		
98.	Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
99.	Opposite Drive End Bearing Temps -	Fahrenheit	
	5 Minutes	10 Minutes	15 Minutes
100.	00. Document Final Condition with Pictures after paint		
101.	Final Pics and QC Review		
101.	Filial Fics and QC Review		

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- 5. <u>DELIVERY OF GOODS AND/OR SERVICES.</u> Unless otherwise identified in the quotation, all shipments are F.O.B. Hi-Speed's warehouse and the title to and all risk of loss with respect to any goods shipped shall pass to Buyer when such goods are delivered to the carrier at Hi-Speed's warehouse. Hi-Speed will use its best efforts to affect delivery by the date or dates specified in the quotation. However, Hi-Speed shall not be liable for delay in or failure to make shipment, or to perform services, by any identified date for any reason whatsoever, including but not limited to, causes beyond its reasonable control, such as strikes, fires, floods, epidemics, quarantines, restrictions, severe weather, embargos, acts of God, or public enemy, war, riot, delays in transportation or the inability to obtain necessary labor, materials or manufacturing facilities.
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- 8. WARRANTIES. Hi-Speed warrants that all goods shall conform in all material aspects to the goods identified in the quotation to Buyer and/or purchase order, and Hi-Speed makes to Buyer the manufacturer's express warranty for any goods sold to Buyer, which is offered by the manufacturer at the time of acceptance of any quotation by Buyer. This warranty is conditioned upon the installation, operation, and maintenance of the goods in accordance with the manufacturer's recommendations and/or standard industry practice and the goods at all times being operated or used under normal operating conditions for which they were designed. Hi-Speed, at its sole option, will repair or

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