

# EVERY DAY SINCE 1946

LR Motor Shop Repairs

## Job Number 104421

Prepared for Sage V Foods

5901 SLOAN DRIVE LITTLE ROCK AR 72206

### Table of Contents

AC Inspection as Found - MOTOR SHOP LR



#### **AC Inspection as Found**

Sage V Foods 5901 SLOAN DRIVE LITTLE ROCK, AR 72206

#### AC Inspection - Rev. 2

Location:	MOTOR SHOP LR
Serial Number:	Z1512110311

Description:20 HP BALDOR

FolderID: 104421 FormID: 24050547

Hi-Speed Job Number:	104421
Manufacturer:	Baldor
Product Number:	CAT#EM2334T
Serial Number:	Z1512110311
HP/kW:	20 (HP)
RPM:	1765 (RPM)
Frame:	256T
Voltage:	230 / 460
Current:	48/24 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	9
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	04/08/2025
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: 🛑 1 - High

🔵 19 - Good

#### **Overall Condition**

1. Report Date

04/21/2025

#### 2. Nameplate Picture



3. Photos of all six sides of the machine.

















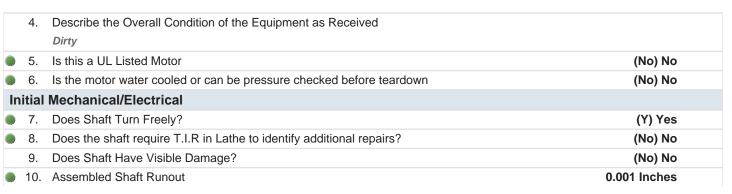




















#### 11. Assembled Shaft End Play

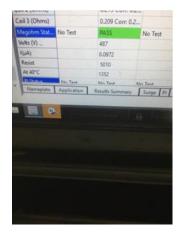
- 12. Air Gap Variation <10%
- 13. Lead Condition

(F) Fail

inches



	14.	Lead Length	12 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		
	19.	Fan Condition	(P) Pass	
	20.	Does motor have internal fan?	(No) No	
	21.	Broken or Missing Components		
Initial Electrical Inspection				
	22.	Insulation Resistance/Megger	Megohms	



23. Winding Resistance	4.0	2.0	
1-2	1-3	2-3	
Status         No Test         PASS         No Test           L11 (Dhms)			
24. Perform Surge Test			(P) Pass
Surge Waveforms     HAS     HAS     HAS       Surge Waveforms     HAS     HAS       Waveforms     HAS     HAS			
25. Number of Stator Slots			48
26. Stator Condition			
27. Stator Thermistors/Ohms			
<ol> <li>27. Stator Thermistors/Ohms</li> <li>28. Stator Overloads/Ohms</li> <li>echanical Inspection</li> </ol>			

#### 30. Drive End Bearing Number-



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?

- 35. Drive End Wavy Washer/Snap-Ring Other Retention Device?
- 36. Drive End Bearing Condition
- Early stages of fluting



37. Opposite Drive End Bearing Brand	FAG
38. Opposite Drive End Bearing Number-	6208



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1.6

39.	Opposite Drive End Bearing Qty.	1
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?	
43.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer
44.	Opposite Drive End Bearing Condition	
Ψ.	Fluting	



45.	Drive End Seal		
Slinger			
46.	Opposite Drive End Seal		
Rotor	Inspection		
47.	Rotor Type/Material		(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
48.	Growler Test		(Pass) Pass
49.	Number of Rotor Bars		40
50.	Rotor Condition		
51. List the Parts needed for the Repair Below 6309 6208 New leads Aegis ring: 2.2272			
52. Signature of Technician that Disassembled Motor Cw			
Mecha	anical Fits- Rotor		
53.	Shaft Runout		inches
54.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
55.	Coupling Fit Closest to Bearing Hou	sing	
	0 Degrees	90 Degrees	120 Degrees
		-	

	56.	5. Coupling Fit Closest to the end of the Shaft			
		0 Degrees	60 Degrees	120 Degrees	
	57.	Drive End Bearing Shaft Fit	22 B	100 0	
		0 Degrees	60 Degrees	120 Degrees	
	•	1.7720-1.7721-1.7721			
	58.	Drive End Bearing Shaft Fit Condition			(P) Pass
	59.	Opposite Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
	•	1.5748-1.5750-1.5750			
	60.	Opposite Drive End Bearing Shaft Fit	Condition		(P) Pass
	61.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
N		anical Fits- Bearing Housings			
	62.	Drive End - Endbell Bearing Fit	22 B	100 0	
		0 Degrees	60 Degrees	120 Degrees	
	Ψ.	3.9374-3.9375-3.9375			
	63.	Drive End - Endbell Bearing Fit Condi	tion		(P) Pass
	64.	Opposite Drive End - Endbell Bearing	Fit		
		0 Degrees	60 Degrees	120 Degrees	
		3.1497-3.1498-3.1498			
	65.	Opposite Drive End - Endbell Bearing	Fit Condition		(P) Pass
	66.	Bearing Cap Condition			
		Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	67.	End Bell Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
	68.	List Machine Work Needed Below			
	69.	Technician			Cw
		Ani			
		1 quan			
	_				
	•	Co sign: DM			
R		Cause of Failure			
	10.	Bearings and lead connections			
	71.	Root cause of failure			
		Loose connection and fluting			
C	ynar	ynamic Balance Report			

72.	2. Rotor Weight and Balance Grade			
	Rotor Weight	Balance Grade		
	5			
73.	Initial Balance Readings			
	Drive End	Opposite Drive End		
74				
74.	Final Balance Readings			
	Drive End	Opposite Drive End		
75.	Technician			
Asser	nbly			
	QC Check All Parts for Cleanliness Pr	ior to Assembly		
77.	Photograph All Major Components pri	-		
78.	Final Insulation Resistance Test			
79.	Assembled Shaft Endplay			
80.	Assembled Shaft Runout			
81.	Test Run Voltage			
	Volts	Volts	Volts	
82.	Test Run Amperage			
	Amps	Amps	Amps	
83.	Drive End Vibration Readings - Inches	s Per Second		
	Horizontal	Vertical	Axial	
84.	Opposite Drive End Vibration Reading	s - Inches Per Second		
	Horizontal	Vertical	Axial	
	85. Ambient Temperature - Fahrenheit			
86. Drive End Bearing Temps - Fahrenheit				
	5 Minutes	10 Minutes	15 Minutes	
87.	Opposite Drive End Bearing Temps -	Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes	
88. Document Final Condition with Pictures after paint				
89.	Final Pics and QC Review			



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- 1. <u>APPLICABILITY.</u> The sale of any and all goods and/or services by Mock, Inc. d/b/a Hi-Speed Industrial Service ("Hi-Speed") shall be specifically conditioned upon and subject to the following terms and conditions which are incorporated by reference into any contracts and purchase orders with Hi-Speed, and which shall form and become a part of any agreement related thereto. Buyer's acceptance of any offer or quotation made by Hi-Speed for sale of any goods or services is expressly made subject to the terms and conditions set forth herein and to be so effective, Buyer need not sign or approve these Terms and Conditions to be bound hereunder provided a copy of same is provided to Buyer through any means. None of the terms and conditions contained herein may be added to, expanded, changed, modified, superseded or otherwise altered except as revised in writing and duly executed by Hi-Speed, and all orders received by Hi-Speed shall be governed only by the terms and conditions contained herein, notwithstanding any terms, conditions or provisions of any purchase order, release order, authorization or any other form issued by the Buyer. Hi-Speed hereby objects to any additional, modified, changed, deleted, altered or other terms and conditions not contained herein and notifies Buyer that any such terms or provisions are expressly rejected by Hi-Speed.
- 2. PRICE. All quoted prices shall remain firm and binding for a period of thirty (30) days from the date of quotation or for the period specifically stated in the quotation. The price for any and all goods and/or services ordered or approved by Buyer after thirty (30) days from the date of any quotation are subject to any increase in price that may occur after the expiration of thirty (30) days from the issuance of the quotation and the date the Buyer releases any shipment.
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- 4. <u>BILLING AND PAYMENT TERMS.</u> Hi-Speed shall invoice Buyer for all goods and/or services as same are rendered at the address listed on the quotation. Payments for all goods and/or services shall be due thirty (30) days from the date of the current invoice or as otherwise set forth in the quotation. Late payments are subject to a late fee of 5% of the total invoice amount. Recurring late payments may lead to a deposit requirement on future services or sale of goods. Buyer shall be liable to Hi-Speed for any and all fees and expenses incurred by Hi-Speed to collect any invoices or to enforce these Standard Terms and Conditions, including but not limited to, attorney's fees.
- 5. DELIVERY OF GOODS AND/OR SERVICES. 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.
- 6. DELIVERY SITE AND TIME FOR PERFORMANCE. Hi-Speed and Buver agree that time is of the essence for the purchase order and that Buyer shall fully cooperate with Hi-Speed in order to allow Hi-Speed full access to prosecute its work diligently and in an orderly manner. Buyer shall assist Hi-Speed in every way possible to avoid delaying, disrupting or interfering with the progress of Hi-Speed's work at the project site. In the event Hi-Speed's work is delayed, hindered, suspended, disrupted, re-sequenced or interfered with or rendered less efficient or more costly or adversely affected in any way as a result of acts or omissions of Buyer or other contractors or employees of Buyer or by any other reason beyond Hi-Speed's control and without the fault of Hi-Speed, then, in such event, Buyer shall be liable to Hi-Speed for any damages, additional costs, expenses, labor, materials, man hours, acceleration costs, overtime, additional jobsite overhead, extended home office overhead, and any and all other direct and indirect expenses of whatsoever nature or kind, caused in whole or in part, as a result of any of the above-referenced occurrences. Hi-Speed's project records will be the basis for computing the additional costs and damages of Hi-Speed's labor, materials, expenses and overhead related to such changes. BUYER WARRANTS THAT THE SITE FOR DELIVERY OR INSTALLATION OF ANY GOODS AND/OR FOR THE PERFORMANCE OF ANY SERVICES SHALL BE READY AND ADEQUATE FOR HI-SPEED'S DELIVERY OF GOODS AND/OR PERFORMANCE OF SERVICES AND THAT HI-SPEED SHALL HAVE FULL ACCESS THERETO, FREE OF ALL OBSTRUCTIONS. BUYER SHALL ASSUME ALL EXTRA COSTS ASSOCIATED WITH HI-SPEED'S INABILITY TO INSTALL ANY GOODS OR PERFORM ANY SERVICES AS A RESULT OF BUYER'S FAILURE TO COMPLY WITH THIS PROVISION. HI-SPEED MAY NOT INSPECT THE SITE PRIOR TO DELIVERY AND/OR INSTALLATION OF GOODS AND/OR PERFORMANCE OF SERVICES AND MAKES NO WARRANTY AS TO THE SUFFICIENCY OF THE SITE FOR THE DELIVERY AND/OR INSTALLATION OF GOODS AND/OR THE PERFORMANCE OF SERVICES AT SUCH SITE.
- 7. INSPECTION/ACCEPTANCE. All goods and services ordered pursuant to any quotation shall be subject to inspection by Buyer after delivery or performance to determine conformity with the quotation and/or purchase order and Hi-Speed's advertised or published specifications. Buyer shall have a period of thirty (30) days from shipment of goods at the delivery destination specified in the quotation within which to inspect the goods for conformity with the quotation, order and/or Hi-Speed's advertised and published specifications and to provide Hi-Speed with written notice of any discrepancy or rejection. Buyer shall have a period of thirty (30) days following completion of any services within which to inspect the services for conformity with the quotation, purchase order and/or Hi-Speed's advertised and published specifications and to provide Hi-Speed with written notice of any discrepancy or rejection. If the goods delivered or services performed do not so conform, upon delivery of notice to Hi-Speed of any discrepancy, nonconformance or rejection, Hi-Speed shall have the right to reject such goods or services. After the cure period, goods that have been delivered and rejected, in whole or in part, shall be returned to Hi-Speed shall, at its sole cost, re-perform the non-conforming services. Inspection or failure to inspect on any occasion shall not affect Buyer's rights under the warranty provisions herein.
- 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

**TermsAndConditions** 

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- 10. <u>SEVERABILITY</u>. The partial or complete invalidity of any provision of these Standard Terms and Conditions shall not affect the enforceability of the remainder of these Standard Terms and Conditions. If any provision is found to be invalid or unenforceable, that portion shall be modified to make it enforceable or shall be stricken and the remainder of these Standard Terms and Conditions shall enforced.
- 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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- 13. FORCE MAJEURE. Neither party shall be responsible for any delay or failure in performance of any party of the quotation, purchase order or these Standard Terms and Conditions to the extent that such delays or failures are caused by fire, flood, earth quake, explosion, war, embargo, government requirement, civil or military authority, acts of God, or any other circumstances beyond its reasonable control and not involving any fault or negligence on the party affected ("Condition"). If any such Condition occurs, the party delayed or unable to perform shall promptly give written notice to the other party and, if such Condition remains at the end of thirty (30) days, the party affected by the other party's delay and inability to perform may elect to (i) terminate such order or part thereof, or (ii) suspend the order for the duration of the Condition, if the Buyer is the suspending party, buy elsewhere comparable material to be sold under the order and apply to any commitment the purchase price of such purchase, and resume performance of the order once the Condition ceases, with an option in the affected party to extend the period of this order up to the length of the time the Condition endures.
- 14. <u>NONWAIVER</u>. No course of dealing or failure of either party to strictly enforce any term, right, or condition of these Standard Terms and Conditions will be construed as a waiver of such term, right or condition. Any waiver by Hi-Speed will only be in writing and will waive no succeeding breach of a term, right or condition.
- 15. <u>ASSIGNMENT.</u> The rights and obligations of the parties shall neither be assigned nor delegated without the prior written consent of the other party. However, any party may assign or delegate its respective rights and obligations, in whole or in part, (i) to any subsidiary, (ii) pursuant to other financing, merger or reorganization or (iii) pursuant to any sale or transfer of substantially all of the assets of the assigning party. These Standard Terms and Conditions shall bind the heirs, successors and assigns of the parties hereto.
- 16. <u>NO INDIVIDUAL LIABILITY</u>. Notwithstanding any other agreement to the contrary, the Buyer agrees that in no event will the Buyer hold and HI-Speed owner, director, officer or employee personally liable for unintentional tortious conduct or conduct that constitutes the breach of any contract between HI-Speed and the Buyer, even if the HI-Speed owner, director, officer or employee is or could be construed to be a party to such contract.