

LR Motor Shop Repairs

Job Number 102385

Prepared for Sage V Foods

5901 SLOAN DRIVE LITTLE ROCK AR 72206

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AC Inspection as Found - MOTOR SHOP LR

AC Inspection - Rev. 2: NO SN

1.0



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AC Inspection as Found

Sage V Foods

5901 SLOAN DRIVE LITTLE ROCK, AR 72206

AC Inspection - Rev. 2

Location: MOTOR SHOP LR

Serial Number: NO SN

Description: 25HP BALDOR 1800RPM 284T

Hi-Speed Job Number:	102385
Manufacturer:	Baldor
Product Number:	10-0000-0086
Spec/ID #:	10-0000-0086
HP/kW:	25 (HP)
RPM:	1775 (RPM)
Frame:	284T
Voltage:	230 / 460
Current:	62/31
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.00
Enclosure:	TENV
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 2 - High

5 - Good

Overall Condition

1. Report Date 02/07/2024

2. Nameplate Picture

Missing

3. Photos of all six sides of the machine.

























4. Describe the Overall Condition of the Equipment as Received Broken shaft and has rust

Initial Mechanical/Electrical

5. Does Shaft Turn Freely?

(Yes) Yes



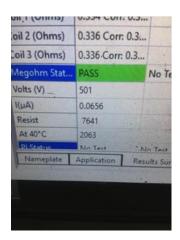
7.	Assembled Shaft Runout	Inches
-	Na	
8.	Assembled Shaft End Play	inches
-	Na	
9.	Air Gap Variation <10%	na
10	Lead Condition	(P) Pass



11. Lead Length	14 Inches	
12. Lead Numbers	1-9	
13. Frame Condition	pass	
14. Fan Condition	(N) NA	
15. Broken or Missing Components	shaft is broken	
Initial Electrical Inspection		

16. Insulation Resistance/Megger

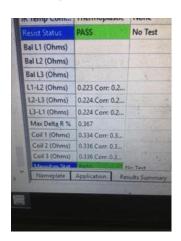
In picture



17. Winding Resistance

1-2 1-3 2-3

In picture



18. Perform Surge Test

(P) Pass

Megohms



19.	Number of Stator Slots	48	
20.	Stator Condition	pass	

21. Stator Thermistors/Ohms

22. Stator Overloads/Ohms

Mechanical Inspection

23. Drive End Bearing Brand

Na



24. Drive End Bearing Number-	6311
25. Drive End Bearing Qty.	1
26. Drive End Bearing Type	(Ball) Ball Bearing
27. Drive End Lubrication Type	(Grease) Grease Lubricated
28. Drive End Bearing Insulation or Grounding Device?	na
29. Drive End Wavy Washer/Snap-Ring Other Retention Device?	na
30. Drive End Bearing Condition	signs of frosting



31. Opposite Drive End Bearing Brand

koyo



32. Opposite Drive End Bearing Number-	6309
33. Opposite Drive End Bearing Qty.	1
34. Opposite Drive End Bearing Type	(Ball) Ball Bearing
35. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
36. Opposite Drive End Bearing Insulation or Grounding Device?	na
37. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer
38. Opposite Drive End Bearing Condition	signs of frosting



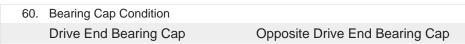
39.	Drive End Seal	labyrinth seal
40.	Opposite Drive End Seal	na
Rotor	Inspection	
41.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
42.	Growler Test	(Pass) Pass
43.	Number of Rotor Bars	41
44.	Rotor Condition	pass
45.	List the Parts needed for the Repair Below	
	6311 6309 New shaft Aegis ring- 2.7132	

	40.	A Land Control of Technician that bisassen		CW
M	l lecha	anical Fits- Rotor		
		Shaft Runout		inches
	-	Broke shaft		
	48.	Rotor Runout		
		Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
		G	•	
	-	Na		
	49.			
		0 Degrees	90 Degrees	120 Degrees
		Na		
	50.	Coupling Fit Closest to the end of the	Shaft	
	00.	0 Degrees	60 Degrees	120 Degrees
		0 Dog. 000	00 D0g1000	120 Dog:000
	-	Na		
	51.	Drive End Bearing Shaft Fit		
		0 Degrees	60 Degrees	120 Degrees
	-	Shaft broke		
	52.	Drive End Bearing Shaft Fit Condition		(F) Fail
	53.	Opposite Drive End Bearing Shaft Fit		
		0 Degrees	60 Degrees	120 Degrees
	_	Oh-K hard		
	F 1	Shaft broke Opposite Drive End Bearing Shaft Fit	Condition	(E) Fail
	54.	Shaft Air Seal Fits	Condition	(F) Fail
	55.	Drive End Air Seal	Opposite Drive End Air Seel	
		Drive End All Seal	Opposite Drive End Air Seal	
	-	Na		
M	lecha	anical Fits- Bearing Housings		
	56.	Drive End - Endbell Bearing Fit		
		0 Degrees	60 Degrees	120 Degrees
		4.7252	4.7249	4.725
	57.	Drive End - Endbell Bearing Fit Condi	tion	(P) Pass
	58.	Opposite Drive End - Endbell Bearing	Fit	
		0 Degrees	60 Degrees	120 Degrees
		3.9373	3.9375	3.9374
	59.	Opposite Drive End - Endbell Bearing	Fit Condition	(P) Pass

Cw

46. Signature of Technician that Disassembled Motor

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Pass



61. End Bell Air Seal Fits
Drive End Air Seal
Opposite Drive End Air Seal

Na

62. List Machine Work Needed Below
Shaft

63. Technician

Cw

Root Cause of Failure

64. Failure locations

Bearings and shaft

65. Root cause of failure

Frosting and possible imbalance of what the motor is connected to

Dynamic Balance Report

66. Rotor Weight and Balance Grade

Rotor Weight Balance Grade

67. Initial Balance Readings

Drive End Opposite Drive End

68. Final Balance Readings

Drive End Opposite Drive End

69. Technician

Rewind

70. Core Test Results - Watts loss per Pound

Pre-Burnout Post Burnout

71.	1. Core Hot Spot Test				
	Pre-Burnout	Post-Burnout			
	72. Post Rewind Electrical Test- Insulation Resistance				
73. Post Rewind Polarization Index					
74.	Post Rewind Winding Resistance				
	1-2	1-3	2-3		
75.	Post Rewind Surge Test				
	Post Rewind Hi-Pot				
77.	Technician				
Mecha	anical Fits- Rotor - Post Repair				
	Shaft Runout Post Repair				
79.	Rotor Runout Post Repair				
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing		
80.	Coupling Fit Closest to Bearing Housi	•			
	0 Degrees	90 Degrees	120 Degrees		
Ω1	Coupling Fit Closest to the end of the	Shaft Doet Denair			
01.	0 Degrees	60 Degrees	120 Degrees		
	0 Degrees	00 Degrees	120 Degrees		
82.	Drive End Bearing Shaft Fit Post Repa	air			
	0 Degrees	60 Degrees	120 Degrees		
83.	Opposite Drive End Bearing Shaft Fit				
	0 Degrees	60 Degrees	120 Degrees		
84	Shaft Air Seal Fits Post Repair				
01.	Drive End Air Seal	Opposite Drive End Air Seal			
	Dive End / III Codi	opposite Brive End / iii Ocai			
85.	Shaft Repair Sign-off				
Mecha	anical Fits- Bearing Housings - P	ost Repair			
86.	Drive End - Endbell Bearing Fit Post F	Repair			
	0 Degrees	60 Degrees	120 Degrees		
	0	EV.D. v.D.			
87.	Opposite Drive End - Endbell Bearing	•	400 B		
	0 Degrees	60 Degrees	120 Degrees		
88.	Bearing Cap Condition Post Repair				
	Drive End Bearing Cap	Opposite Drive End Bearing Cap			
	0 - 1				
89.	End Bell Air Seal Fits Post Repair				
	Drive End Air Seal	Opposite Drive End Air Seal			
	Find Dall Dam 1 O' "				
	90. End Bell Repair Sign-off				
Asser	·	ion to Appoint I.			
91.	QC Check All Parts for Cleanliness Pr	TOF TO ASSEMBLY			

92.	Photograph All Major Components pri	or to assembly	
93.	Final Insulation Resistance Test		
94.	Assembled Shaft Endplay		
95.	Assembled Shaft Runout		
96.	Test Run Voltage		
	Volts	Volts	Volts
97.	Test Run Amperage		
	Amps	Amps	Amps
98.	Drive End Vibration Readings - Inches		
	Horizontal	Vertical	Axial
00			
99.	Opposite Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
100	Ambient Temperature - Fahrenheit		
	Drive End Bearing Temps - Fahrenheit		
101.	• •		45.50
	5 Minutes	10 Minutes	15 Minutes
102. Opposite Drive End Bearing Temps - Fahrenheit		Fahrenheit	
	5 Minutes	10 Minutes	15 Minutes
103.	Document Final Condition with Picture	es after paint	
104.	Final Pics and QC Review		



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- 1. APPLICABILITY. 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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- 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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- 11. **GOVERNING LAW AND JURISDICTION.** 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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