

LR Motor Shop Repairs

Job Number 99758

Prepared for Sage V Foods

5901 SLOAN DRIVE LITTLE ROCK AR 72206

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AC Recondition As Found - MOTOR SHOP LR

AC Recondition - Rev. 2: C2002030652

1.0



FolderID: 99758 FormID: 13502225



AC Recondition As Found

Sage V Foods

Location:

5901 SLOAN DRIVE LITTLE ROCK, AR 72206

AC Recondition - Rev. 2

Serial Number: C2002030652

Description:25HP Baldor 1775RPM 284T Severe

MOTOR SHOP LR

Duty

Hi-Speed Job Number:	99758
Manufacturer:	Baldor
Spec/ID #:	10-0000-0086
Serial Number:	C2002030652
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
Date Received:	05/05/2022
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: **7 - Good**

Overall Condition

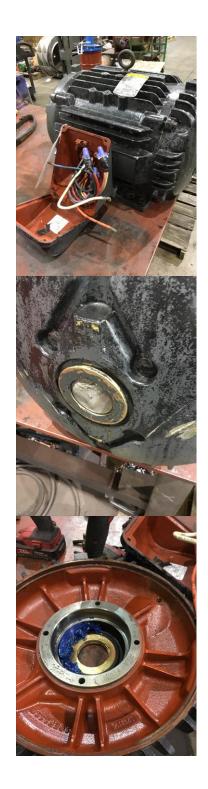
1. Report Date 05/25/2022

2. Nameplate Picture













 Describe the Overall Condition of the Equipment as Received Shaft broken

4. Photos of all six sides of the machine.

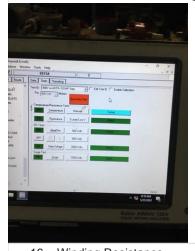
Initial Mechanical/Electrical

(5 .	Does Shaft Turn Freely?	(Yes) Yes
	6.	Does Shaft Have Visible Damage?	(Yes) Yes
	-	Drive end broken off.	

- 7. Assembled Shaft Runout
- 8. Assembled Shaft End Play
- 9. Air Gap Variation <10%
- 10. Lead Condition(P) Pass
 - 11. Lead Length 12 Inches
 - 12. Frame Condition good
 - 13. Fan Condition (N) NA
 - 14. Broken or Missing Components shaft broken

Initial Electrical Inspection

15. Insulation Resistance/Megger Megohms



16.	vvinaing	Resistance

1-2 1-3 2-3

● 17. Perform Surge Test (P) Pass

18. Stator Condition good

Mecha	anical Inspection		
	Drive End Bearing Number-		6311
20.	Drive End Bearing Qty.		1
21.	Drive End Bearing Type		(Ball) Ball Bearing
22.	Drive End Lubrication Type		(Grease) Grease Lubricated
23.	Drive End Bearing Insulation or Grou	nding Device?	none
24.	Drive End Wavy Washer/Snap-Ring	Other Retention Device?	none
25.	Drive End Bearing Condition		good
26.	Opposite Drive End Bearing Number	•	6309
27.	Opposite Drive End Bearing Qty.		1
28.	Opposite Drive End Bearing Type		(Ball) Ball Bearing
29.	Opposite Drive End Lubrication Type		(Grease) Grease Lubricated
30.	Opposite Drive End Bearing Insulation	n or Grounding Device?	none
31.	Opposite Drive End Wavy Washer/Sr	nap-Ring Other Retention Device?	wavy washer
32.	Opposite Drive End Bearing Conditio	n	good
33.	Drive End Seal		good
34.	Opposite Drive End Seal		none
Rotor	Inspection		
35.	Rotor Type/Material		(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
36.	Growler Test		(Pass) Pass
37.	Number of Rotor Bars		40
38.	Rotor Condition		good
39.	List the Parts needed for the Repair E	Below	
	shaft, 6311, 6309 Signature of Technician that Disasse		David Maclin
	200		
Mecha	anical Fits- Rotor		
41.	Shaft Runout		
42.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
43.	Coupling Fit Closest to Bearing House	ing	
	0 Degrees	90 Degrees	120 Degrees
44.	Coupling Fit Closest to the end of the	Shaft	
	0 Degrees	60 Degrees	120 Degrees
45.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
4 6.	Drive End Bearing Shaft Fit Condition	n	(P) Pass
47.	Opposite Drive End Bearing Shaft Fit		
47.	Opposite Drive End Bearing Shaft Fit 0 Degrees	60 Degrees	120 Degrees

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4 8.	Opposite Drive End Bearing Shaft Fit	Condition		(P) Pass
49.	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
Mecha	anical Fits- Bearing Housings			
50.	Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
5 1.	Drive End - Endbell Bearing Fit Condi	tion		(P) Pass
52.	Opposite Drive End - Endbell Bearing	Fit		
	0 Degrees	60 Degrees	120 Degrees	
5 3.	Opposite Drive End - Endbell Bearing	Fit Condition		(P) Pass
54.	Bearing Cap Condition			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
55.	End Bell Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
56.	List Machine Work Needed Below			
	New shaft			



57. Technician David Maclin

Dynamic Balance Report

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59.	Initial Balance Readings		
	Drive End	Opposite Drive End	
	.25	.44	
60.	Final Balance Readings		
	Drive End	Opposite Drive End	
	.13	.14	
61.	Technician		RW



Rewind

62. Core Test Results - Watts loss per Pound

Pre-Burnout Post Burnout

63. Core Hot Spot Test

Pre-Burnout Post-Burnout

- 64. Post Rewind Electrical Test- Insulation Resistance
- 65. Post Rewind Polarization Index
- 66. Post Rewind Winding Resistance

1-2 1-3 2-3

- 67. Post Rewind Surge Test
- 68. Post Rewind Hi-Pot
- 69. Technician

Root Cause of Failure

- 70. Failure locations Shaft broken.
- 71. Root cause of failure

Shaft broken

Mechanical Fits- Rotor - Post Repair

72.	Shaft Runout Post Repair			
73.	Rotor Runout Post Repair			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
		·	•	
74.	Coupling Fit Closest to Bearing Housi	ng Post Repair		
	0 Degrees	90 Degrees	120 Degrees	
75	Counting Fit Classest to the and of the	Chaft Doot Donois		
75.	Coupling Fit Closest to the end of the	·	120 Dogrado	
	0 Degrees	60 Degrees	120 Degrees	
76.	Drive End Bearing Shaft Fit Post Repa	air		
	0 Degrees	60 Degrees	120 Degrees	
		9	ū	
77.	Opposite Drive End Bearing Shaft Fit	Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
70	Chaft Air Cool Fite Doot Donoir			
78.	Shaft Air Seal Fits Post Repair Drive End Air Seal	Opposite Drive End Air Seel		
	Drive End Air Seal	Opposite Drive End Air Seal		
79.	Shaft Repair Sign-off			
Mecha	Mechanical Fits- Bearing Housings - Post Repair			
80.	Drive End - Endbell Bearing Fit Post F	Repair		
	0 Degrees	60 Degrees	120 Degrees	
81.	Opposite Drive End - Endbell Bearing	•		
	0 Degrees	60 Degrees	120 Degrees	
82	Bearing Cap Condition Post Repair			
02.	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	Drive Life Bearing Cap	Opposite Brive End Bearing Cap		
83.	End Bell Air Seal Fits Post Repair			
	Drive End Air Seal	Opposite Drive End Air Seal		
	End Bell Repair Sign-off			
Asser	•			
85.	0 1	or to assembly		
86.	Final Insulation Resistance Test			
	Assembled Shaft Endplay			
88.	Assembled Shaft Runout			

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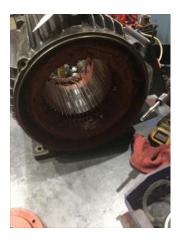
89. Test Run Voltage			
Volts	Volts	Volts	
456	454	458	



90. Test Run Amperage		
Amps	Amps	Amps
13.1	12.4	12.7



91. Drive End Vibration Readings - Inches Per Second			
	Horizontal	Vertical	Axial
	0.01	0.02	0.05
92.	Opposite Drive End Vibration Reading	s - Inches Per Second	
	Horizontal	Vertical	Axial
	0.04	0.02	0.05
93.	Ambient Temperature - Fahrenheit		
94.	94. Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
95.	Opposite Drive End Bearing Temps -	Fahrenheit	
	5 Minutes	10 Minutes	15 Minutes
96.	Final Test Run Sign-off		
97.	97. Document Final Condition with Pictures after paint		



























98. Final Pics and QC Review

RW



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- 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.
- 3. SCOPE OF GOODS AND/OR SERVICES. The goods and/or services provided by Hi-Speed pursuant to any quotation shall be limited exclusively to those goods and/or services expressly identified therein. Hi-Speed does not assume any responsibility and/or liability for the failure to provide any other goods and/or services not identified in any quotation. Modifications, additions or deletions to or from the scope referenced in any quotation shall only bee effective if evidenced in writing and signed by Hi-Speed. The sale of any of all goods and/or services affected by such modification, addition or deletion shall be subject to these same Standard Terms and Conditions whether or not referenced therein.
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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.
- **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.
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- 8. <u>WARRANTIES.</u> 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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- 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.
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