



## AC Inspection as Found

Riceland Foods  
1200 N Park Ave  
Stuttgart, AR 72160

FolderID: 104217  
FormID: 23563750

### AC Inspection - Rev. 2

Location: LR MOTOR SHOP

Serial Number: A1204132126

Description: 200 HP BALDOR

Hi-Speed Job Number: 104217

Manufacturer: Baldor

Product Number: 1DVSH4407T-4

Serial Number: A1204132126

HP/kW: 200 (HP)

RPM: 1790 (RPM)

Frame: 447T

Voltage: 460

Current: 226 (Amps)

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.0

Enclosure: TEFC

# of Leads: 6

J-box Included: None

Coupling/Sheave: None

Date Received: 03/12/2025

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final

Rewind: Yes

Shaft Machined Fit Repairs  
Required: Yes

Bearing Housing Machined  
Fit Repairs Required: Yes

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found: 3 - High 9 - Good

### Overall Condition



1. Report Date

03/11/2025

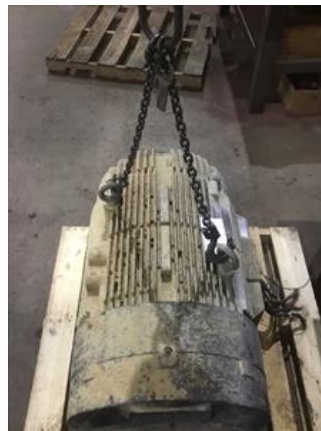
2. Nameplate Picture

P37



3. Photos of all six sides of the machine.

P45





*Small crack in fan cover mount bolt hole*



*ODE bearing cap bolts loose. (All of them.)*









4. Describe the Overall Condition of the Equipment as Received

*Dirty but serviceable*

#### Initial Mechanical/Electrical



5.	Does Shaft Turn Freely?	(Y) Yes	
6.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No	
7.	Does Shaft Have Visible Damage?	(No) No	P26



8.	Assembled Shaft Runout	0.002 Inches
9.	Assembled Shaft End Play	0 inches
10.	Air Gap Variation <10%	no

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.



12.	Lead Length	11.5 Inches	
13.	Does it have Lugs?, If so what is the Stud Size?	(No) No	
14.	Lead Numbers	T1-T3	
15.	Frame Condition	pass	
16.	Fan Condition	(P) Pass	P115



Some wear from loose bearing cap bolts

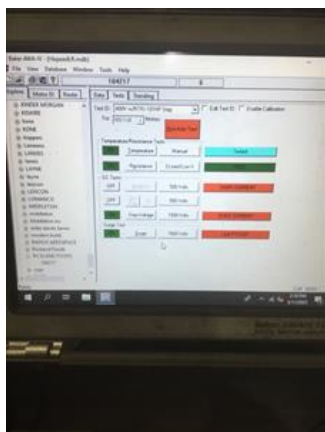
17. Does motor have internal fan?	(No) No
18. Broken or Missing Components	DE bearing cir clip ( snap ring)

Initial Electrical Inspection		
19. Insulation Resistance/Megger	Megohms	
<div> <div></div> <div>See below</div> </div>		

1-2

1-3

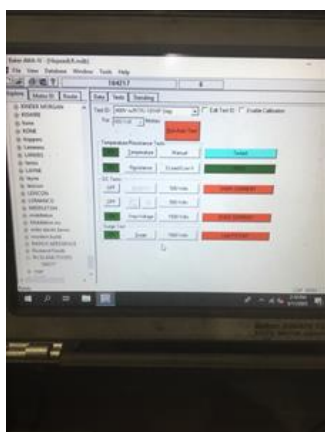
2-3



21. Perform Surge Test

(F) Fail

P57



22. Number of Stator Slots

72

23. Stator Condition

rewind

24. Stator Thermistors/Ohms

25. Stator Overloads/Ohms

0.3

P96



## Mechanical Inspection



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.



 Needs replacing





33. Drive End Bearing Condition

replace

Contaminated grease

34. Opposite Drive End Bearing Brand

SKF

P92





36. Opposite Drive End Bearing Qty.	1
37. Opposite Drive End Bearing Type	(Ball) Ball Bearing
38. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
39. Opposite Drive End Bearing Insulation or Grounding Device?	none
40. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	none
41. Opposite Drive End Bearing Condition	replace
<div></div> Contaminated grease.	
42. Drive End Seal	none
43. Opposite Drive End Seal	none

### Rotor Inspection





45. Growler Test

(Pass) Pass

46. Number of Rotor Bars

58

47. Rotor Condition

pass

P41



48. List the Parts needed for the Repair Below

*D.E bearing #6318 C3 & ODE #6318/C3 VL0241 (ceramic)  
Sleeve both housing fits.  
Repair ODE air gap shaft surface.  
Recommend Aegis grounding ring on DE*

49. Signature of Technician that Disassembled Motor

Terrence Holland

**Mechanical Fits- Rotor**

50. Shaft Runout

0.002 inches

51. Rotor Runout

Drive End Bearing Fit

Rotor Body




Opposite Drive End Bearing

52. Coupling Fit Closest to Bearing Housing



0 Degrees

90 Degrees

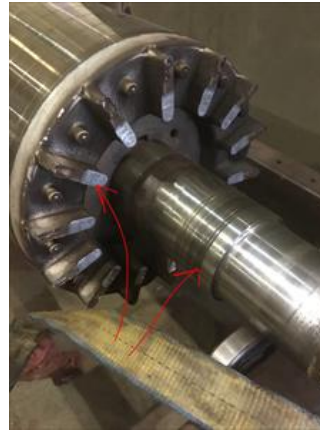
120 Degrees

53.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
54.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	3.5434	3.5433	3.5434
55.	Drive End Bearing Shaft Fit Condition		(P) Pass P81
			
56.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	3.544	3.5439	3.544
57.	Opposite Drive End Bearing Shaft Fit Condition		(P) Pass
58.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
		.070	
	Limit is .030		
Mechanical Fits- Bearing Housings 			
59.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	See below		
60.	Drive End - Endbell Bearing Fit Condition		(F) Fail P15
	Lip worn in		
			



61.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	See below		
62.	Opposite Drive End - Endbell Bearing Fit Condition		(F) Fail P39
	Lip worn in		
			
63.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	pass	pass	
64.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
65.	List Machine Work Needed Below		
	Both end bell housing fits bad. DE shaft bearing journal bad		
66.	Technician		Terrence Holland
			
	Co sign RRW		
Root Cause of Failure			
67.	Failure locations		
	ODE bearing cap bolts. Both bearings have dirty grease.		

*All ODE bearing cap bolts were completely backed out of the bolt hole threads.*



*After fan removal, the bolts pulled out by hand without being unscrewed.*

*Bearing cap was free floating inside because of the mount bolts being backed off.*



### Dynamic Balance Report

69. Rotor Weight and Balance Grade

Rotor Weight

Balance Grade

70. Initial Balance Readings

Drive End

Opposite Drive End

71. Final Balance Readings

Drive End

Opposite Drive End

72. Technician

### Rewind

73. Core Test Results - Watts loss per Pound

Pre-Burnout

Post Burnout

74. Core Hot Spot Test

Pre-Burnout

Post-Burnout

75. Post Rewind Electrical Test- Insulation Resistance

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.

76.	Post Rewind Polarization Index		
77.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
78.	Post Rewind Surge Test		
79.	Post Rewind Hi-Pot		
80.	Technician		
Mechanical Fits- Rotor - Post Repair			
81.	Shaft Runout Post Repair		
82.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
83.	Coupling Fit Closest to Bearing Housing Post Repair		
	0 Degrees	90 Degrees	120 Degrees
84.	Coupling Fit Closest to the end of the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees
85.	Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
86.	Opposite Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
87.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
88.	Shaft Repair Sign-off		
Mechanical Fits- Bearing Housings - Post Repair			
89.	Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
90.	Opposite Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
91.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
92.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
93.	End Bell Repair Sign-off		
Assembly			
94.	QC Check All Parts for Cleanliness Prior to Assembly		
95.	Photograph All Major Components prior to assembly		
96.	Final Insulation Resistance Test		
97.	Assembled Shaft Endplay		
98.	Assembled Shaft Runout		

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.

99. Test Run Voltage			
Volts	Volts	Volts	
100. Test Run Amperage			
Amps	Amps	Amps	
101. Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical	Axial	
102. Opposite Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical	Axial	
103. Ambient Temperature - Fahrenheit			
104. Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
105. Opposite Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
106. Document Final Condition with Pictures after paint			
107. Final Pics and QC Review			