



AC Inspection as Found

Sage V Foods

5901 SLOAN DRIVE
LITTLE ROCK, AR 72206

FolderID: 101627
FormID: 17347485

AC Inspection - Rev. 2

Location: MOTOR SHOP LR

Serial Number:

Description: 50HP BALDOR

Hi-Speed Job Number: 101627

Manufacturer: Baldor

Serial Number: C2204261427

HP/kW: 50 (HP)

RPM: 1770 (RPM)

Frame: 326TD

Voltage: 230 / 460

Current: 117-57

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.15

Enclosure: TEFC

J-box Included: Complete

Coupling/Sheave: None

Date Received: 07/18/2023

Repair Stage: Final

Priorities Found: ● 1 - High

● 8 - Good

Overall Condition



1. Report Date

2. Nameplate Picture

P37



3. Photos of all six sides of the machine.

P45





4. Describe the Overall Condition of the Equipment as Received
Serviceable

Initial Mechanical/Electrical







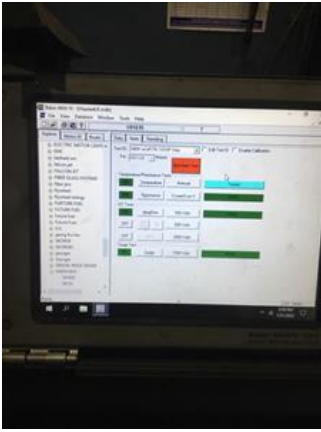
- | | | | |
|---|------------------------------------|-----------|-----|
| ● | 5. Does Shaft Turn Freely? | (Yes) Yes | |
| ● | 6. Does Shaft Have Visible Damage? | (Yes) Yes | P17 |
| ■ | <i>Key way wallowed.</i> | | |



- | | | |
|---|-----------------------------|------------|
| ● | 7. Assembled Shaft Runout | 0.9 Inches |
| | 8. Assembled Shaft End Play | |
| | 9. Air Gap Variation <10% | |
| ● | 10. Lead Condition | (P) Pass |
| | 11. Lead Length | |

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12.	Lead Numbers	1-9	
13.	Stator Temperature Detector Rating and Function		
	Quantity	Rating	Quantity Passed
14.	Bearing Temperature Detector Rating and Function		
	Quantity	Rating	Quantity Passed
15.	Frame Condition	pass	P105
<div style="display: flex; justify-content: space-around;">   </div>			
16.	Fan Condition	(P) Pass	P109
			
17.	Heater Quantity, Ratings		
	Quantity	Volts/Watts	Pass/Fail
18.	Broken or Missing Components		
Initial Electrical Inspection			
19.	Insulation Resistance/Megger		
20.	Winding Resistance		
	1-2	1-3	2-3



22. Number of Stator Slots	48 Megohms
23. Stator Condition	pass
24. Stator Thermistors/Ohms	none
25. Stator Overloads/Ohms	none

Mechanical Inspection



26. Drive End Bearing Brand	Peer	
27. Drive End Bearing Number-	6312	P28



28. Drive End Bearing Qty.	1
29. Drive End Bearing Type	(Ball) Ball Bearing
30. Drive End Lubrication Type	(Grease) Grease Lubricated
31. Drive End Bearing Insulation or Grounding Device?	none
32. Drive End Wavy Washer/Snap-Ring Other Retention Device?	star washer and gland nut
33. Drive End Bearing Condition	replace
34. Opposite Drive End Bearing Brand	PEER

35. Opposite Drive End Bearing Number-

6312

P99



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?

wavy washer

41. Opposite Drive End Bearing Condition

replace

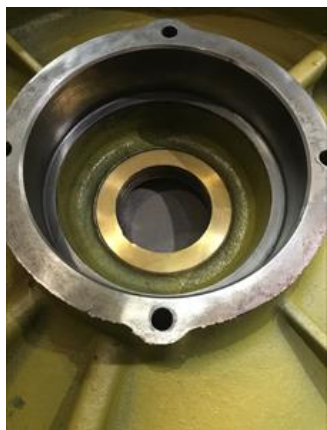
P116



42. Drive End Seal

in pro

P119

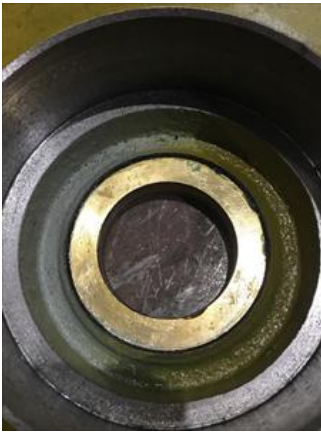


43. Opposite Drive End Seal

in pro

P121

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44. DE Sleeve Bearing Inside Diameter

0 degrees 120 degrees 240 degrees

45. DE Sleeve Bearing Outside Diameter

0 degrees 120 degrees 240 degrees

46. DE Sleeve Bearing Housing Inside Diameter

0 degrees 120 degrees 240 degrees

47. DE Sleeve Bearing to Housing Clearance

0 degrees 120 degrees 240 degrees

48. ODE Sleeve Bearing Inside Diameter

0 degrees 120 degrees 240 degrees

49. ODE Sleeve Bearing Outside Diameter

0 degrees 120 degrees 240 degrees

50. ODE Sleeve Bearing Housing Inside Diameter

0 degrees 120 degrees 240 degrees

51. ODE Sleeve Bearing to Housing Clearance

0 degrees 120 degrees 240 degrees

Rotor Inspection





53. Growler Test

(Pass) Pass

54. Number of Rotor Bars

40

55. Rotor Condition

shaft replacement needed.

P40

Shaft bent more than .90. And key way wallowed.



56. List the Parts needed for the Repair Below

New shaft, and new bearings.

57. Signature of Technician that Disassembled Motor

Terrence Holland

Mechanical Fits- Rotor

58. Shaft Runout

0.9 inches

59. Rotor Runout

Drive End Bearing Fit

Rotor Body

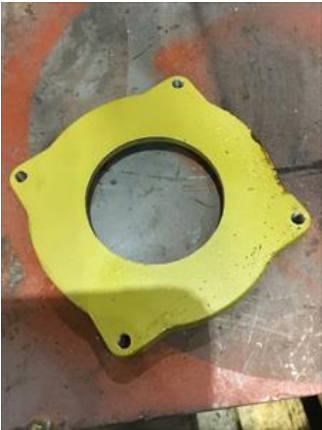
Opposite Drive End Bearing

60. Coupling Fit Closest to Bearing Housing

0 Degrees

90 Degrees

120 Degrees

61.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
62.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
<div> <div></div> Needs new shaft </div>			
63.	Drive End Bearing Shaft Fit Condition		(P) Pass
64.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	2.363	2.3632	2.363
65.	Opposite Drive End Bearing Shaft Fit Condition		(P) Pass
66.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
Mechanical Fits- Bearing Housings <div></div>			
67.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	5.119	5.1188	5.1188
68.	Drive End - Endbell Bearing Fit Condition		(P) Pass
69.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	5.1187	5.1185	5.1186
70.	Opposite Drive End - Endbell Bearing Fit Condition		(P) Pass
71.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	pass		
			
72.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
73.	List Machine Work Needed Below		
	New shaft		

P52


Dynamic Balance Report

75. Rotor Weight and Balance Grade

Rotor Weight

Balance Grade

76. Initial Balance Readings

Drive End

Opposite Drive End

77. Final Balance Readings

Drive End

Opposite Drive End

78. Technician

Rewind

79. Core Test Results - Watts loss per Pound

Pre-Burnout

Post Burnout

80. Core Hot Spot Test

Pre-Burnout

Post-Burnout

81. Post Rewind Electrical Test- Insulation Resistance

82. Post Rewind Polarization Index

83. Post Rewind Winding Resistance

1-2

1-3

2-3

84. Post Rewind Surge Test

85. Post Rewind Hi-Pot

86. Technician

Root Cause of Failure

87. Failure locations

88. Root cause of failure

Mechanical Fits- Rotor - Post Repair

89. Shaft Runout Post Repair

90. Rotor Runout Post Repair

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

91. Coupling Fit Closest to Bearing Housing Post Repair

0 Degrees

90 Degrees

120 Degrees

92. Coupling Fit Closest to the end of the Shaft Post Repair

0 Degrees

60 Degrees

120 Degrees

93.	Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
94.	Opposite Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
95.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
96.	Shaft Repair Sign-off		
Mechanical Fits- Bearing Housings - Post Repair			
97.	Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
98.	Opposite Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
99.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
100.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
101.	DE Sleeve Bearing Inside ID Post Repair		
	Measure 1	Measure 2	Measure 3
102.	DE Sleeve Bearing Outside ID Post Repair		
	Measure 1	Measure 2	Measure 3
103.	DE Sleeve Bearing Inside OD Post Repair		
	Measure 1	Measure 2	Measure 3
104.	DE Sleeve Bearing Outside OD Post Repair		
	Measure 1	Measure 2	Measure 3
105.	End Bell Repair Sign-off		
106.	ODE Sleeve Bearing Inside ID Post Repair		
	Measure 1	Measure 2	Measure 3
107.	ODE Sleeve Bearing Outside ID Post Repair		
	Measure 1	Measure 2	Measure 3
108.	ODE Sleeve Bearing Inside OD Post Repair		
	Measure 1	Measure 2	Measure 3

109. ODE Sleeve Bearing Outside OD Post Repair			
Measure 1	Measure 2	Measure 3	
Assembly			
110. QC Check All Parts for Cleanliness Prior to Assembly			
111. Photograph All Major Components prior to assembly			
112. Final Insulation Resistance Test			
113. Assembled Shaft Endplay			
114. Assembled Shaft Runout			
115. Test Run Voltage			
Volts	Volts	Volts	
116. Test Run Amperage			
Amps	Amps	Amps	
117. Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical	Axial	
118. Opposite Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical	Axial	
119. Ambient Temperature - Fahrenheit			
120. Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
121. Drive End Bearing Temps - Fahrenheit 20-30 Minutes			
20 Minutes	25 Minutes	30 Minutes	
122. Drive End Bearing Temps - Fahrenheit 35-45 Minutes			
35 Minutes	40 Minutes	45 Minutes	
123. Drive End Bearing Temps - Fahrenheit 50-60 Minutes			
50 Minutes	55 Minutes	60 Minutes	
124. Opposite Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
125. Opposite Drive End Bearing Temps - Fahrenheit 20-30 Minutes			
20 Minutes	25 Minutes	30 Minutes	
126. Opposite Drive End Bearing Temps - Fahrenheit 35-45 Minutes			
35 Minutes	40 Minutes	45 Minutes	
127. Opposite Drive End Bearing Temps - Fahrenheit 50-60 Minutes			
50 Minutes	55 Minutes	60 Minutes	

128. Stator Temperatures- Fahrenheit	5 Minutes	10 Minutes	15 Minutes
129. Stator Temperatures- Fahrenheit 20-30 Minutes	20 Minutes	25 Minutes	30 Minutes
130. Stator Temperatures- Fahrenheit 35-45 Minutes	35 Minutes	40 Minutes	45 Minutes
131. Stator Temperatures- Fahrenheit 50-60 Minutes	50 Minutes	55 Minutes	60 Minutes
132. Document Final Condition with Pictures after paint			
133. Final Pics and QC Review			