



AC Inspection as Found

Sage V Foods

5901 SLOAN DRIVE
LITTLE ROCK, AR 72206

FolderID: 101145
FormID: 16313973

AC Inspection - Rev. 2

Location: MOTOR SHOP LR

Serial Number: C2010160282

Description: 25HP BALDOR 1800RPM 284T

Hi-Speed Job Number: 101145

Manufacturer: Baldor

Product Number: EM4103T

Spec/ID #: 10C151Z651G1

Serial Number: C2010160282

HP/kW: 25 (HP)

RPM: 1775 (RPM)

Frame: 284T

Voltage: 230 / 460

Current: 62/31

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.0

Enclosure: TEFC

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: ● 1 - High ● 6 - Good

Overall Condition



1. Report Date

2. Nameplate Picture

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3. Photos of all six sides of the machine.

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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? (No) No P18



7. Assembled Shaft Runout
8. Assembled Shaft End Play
9. Air Gap Variation <10%
10. Lead Condition (P) Pass P54



11. Lead Length 9 Inches
12. Frame Condition

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14. Broken or Missing Components

Initial Electrical Inspection

15. Insulation Resistance/Megger

Megohms

16. Winding Resistance

1-2

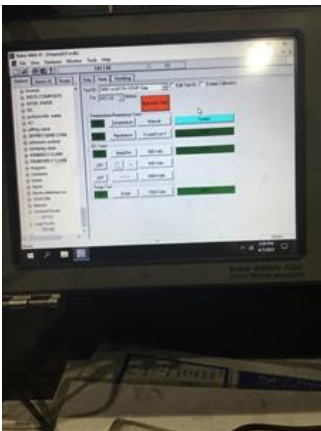
1-3

2-3

17. Perform Surge Test

(P) Pass

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18. Number of Stator Slots

19. Stator Condition

pass

Mechanical Inspection

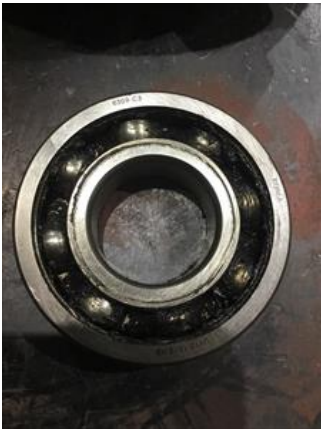
20. Drive End Bearing Brand

FAG



22. Drive End Bearing Qty.	1
23. Drive End Bearing Type	(Ball) Ball Bearing
24. Drive End Lubrication Type	(Grease) Grease Lubricated
25. Drive End Bearing Insulation or Grounding Device?	none
26. Drive End Wavy Washer/Snap-Ring Other Retention Device?	none
27. Drive End Bearing Condition	replace
28. Opposite Drive End Bearing Brand	Fag
29. Opposite Drive End Bearing Number-	

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30. Opposite Drive End Bearing Qty.	1
31. Opposite Drive End Bearing Type	(Ball) Ball Bearing
32. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
33. Opposite Drive End Bearing Insulation or Grounding Device?	none
34. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer

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- | | |
|--|-----------|
| 35. Opposite Drive End Bearing Condition | replace |
| 36. Drive End Seal | dust seal |
| 37. Opposite Drive End Seal | |

Rotor Inspection



38. Rotor Type/Material

P3




- | | |
|---|------------------|
| 39. Growler Test | (Pass) Pass |
| 40. Number of Rotor Bars | |
| 41. Rotor Condition | pass |
| 42. List the Parts needed for the Repair Below | |
| 43. Signature of Technician that Disassembled Motor | Terrence Holland |

Terrence Holland

Mechanical Fits- Rotor

- | | | |
|---|--------------|----------------------------|
| 44. Shaft Runout | 0.001 inches | |
| 45. Rotor Runout | | |
| Drive End Bearing Fit | Rotor Body | Opposite Drive End Bearing |
| 46. Coupling Fit Closest to Bearing Housing | | |
| 0 Degrees | 90 Degrees | 120 Degrees |

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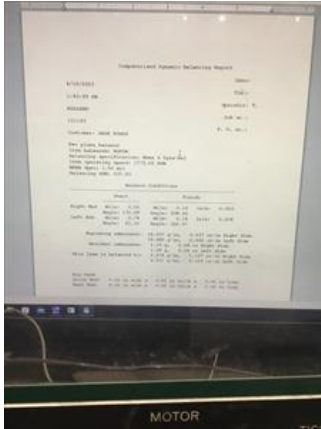
47.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
48.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	2.166	2.166	2.166
49.	Drive End Bearing Shaft Fit Condition (P) Pass		
50.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	1.7718	1.7718	1.7718
51.	Opposite Drive End Bearing Shaft Fit Condition (P) Pass		
52.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
Mechanical Fits- Bearing Housings			
53.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	4.7257	4.7256	
54.	Drive End - Endbell Bearing Fit Condition (F) Fail		
55.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	3.9377	3.9378	3.9378
56.	Opposite Drive End - Endbell Bearing Fit Condition (P) Pass		
57.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	pass	pass	
58.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
59.	List Machine Work Needed Below <i>D.E. housing fit measures too large.</i>		
60.	Technician		Terrence Holland
			
Dynamic Balance Report			
61.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
62.	Initial Balance Readings		
	Drive End	Opposite Drive End	
	.55	.74	

Drive End

Opposite Drive End

.12

.14



64. Technician

Terrence. Holland

Rewind

65. Core Test Results - Watts loss per Pound

Pre-Burnout

Post Burnout

66. Core Hot Spot Test

Pre-Burnout

Post-Burnout

67. Post Rewind Electrical Test- Insulation Resistance

68. Post Rewind Polarization Index

69. Post Rewind Winding Resistance

1-2

1-3

2-3

70. Post Rewind Surge Test

71. Post Rewind Hi-Pot

72. Technician

Root Cause of Failure

73. Failure locations

74. Root cause of failure

Mechanical Fits- Rotor - Post Repair

75. Shaft Runout Post Repair

76. Rotor Runout Post Repair

Drive End Bearing Fit

Rotor Body






Opposite Drive End Bearing

77. Coupling Fit Closest to Bearing Housing Post Repair

0 Degrees

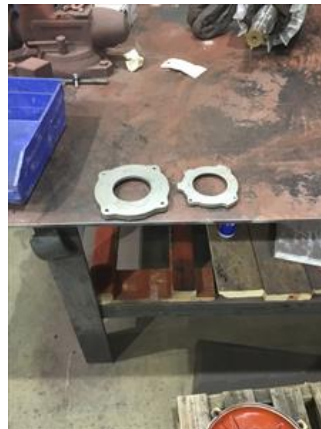
90 Degrees

120 Degrees

78.	Coupling Fit Closest to the end of the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees
79.	Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
80.	Opposite Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
81.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
82.	Shaft Repair Sign-off		
Mechanical Fits- Bearing Housings - Post Repair 			
83.	Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
	4.7246	4.7246	4.7246
			
84.	Opposite Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
85.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
86.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
87.	End Bell Repair Sign-off		Gary
 			
Assembly 			
88.	QC Check All Parts for Cleanliness Prior to Assembly		
89.	Photograph All Major Components prior to assembly		

90.	Final Insulation Resistance Test		
91.	Assembled Shaft Endplay		
92.	Assembled Shaft Runout		
93.	Test Run Voltage		
	Volts	Volts	Volts
94.	Test Run Amperage		
	Amps	Amps	Amps
95.	Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
96.	Opposite Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
97.	Ambient Temperature - Fahrenheit		
98.	Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
99.	Opposite Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
100.	Document Final Condition with Pictures after paint		

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101. Final Pics and QC Review

Terrence. Holland

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[Handwritten signature: T. Holland]

