



AC Inspection as Found

Georges Inc
1810 S. St. Louis Street
Batesville, AR 72501

FolderID: 101926
FormID: 18054633

AC Inspection - Rev. 2

Location: Shop
Serial Number: NO SN
Description: 75HP BALDOR 1800RPM 365TS

Hi-Speed Job Number:	101926
Manufacturer:	Baldor
Product Number:	EM4316TS
Spec/ID #:	A36-0005-4148
HP/kW:	75 (HP)
RPM:	1780 (RPM)
Frame:	365TS
Voltage:	230 / 460
Current:	174/87
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	9
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Rewind:	No
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: ● 1 - High ● 8 - Good

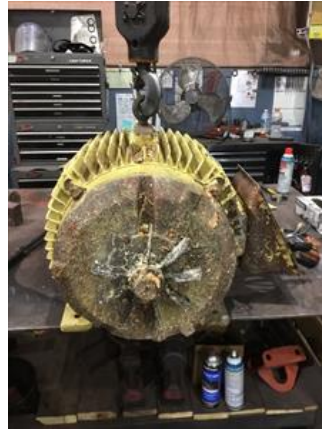
Overall Condition

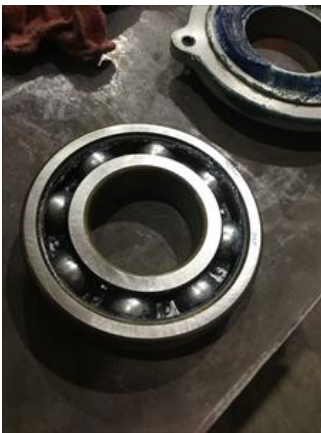


1. Report Date

10/11/2023









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

Initial Mechanical/Electrical



- | | | |
|------------------------------------|-----------|-----|
| 5. Does Shaft Turn Freely? | (Yes) Yes | |
| 6. Does Shaft Have Visible Damage? | (No) No | P20 |



- | | |
|-----------------------------|--------------|
| 7. Assembled Shaft Runout | 0.002 Inches |
| 8. Assembled Shaft End Play | 0 inches |
| 9. Air Gap Variation <10% | good |

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11. Lead Length

9 Inches

12. Lead Numbers

1-9

13. Frame Condition

rusty but serviceable

P93



14. Fan Condition

(F) Fail

P95

Cracked

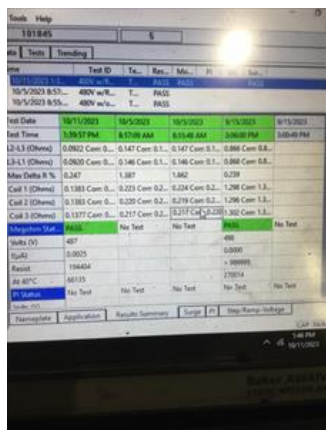


15. Broken or Missing Components

fan assy.

Initial Electrical Inspection





17. Winding Resistance

1-2

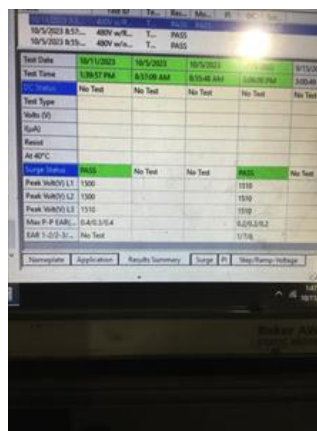
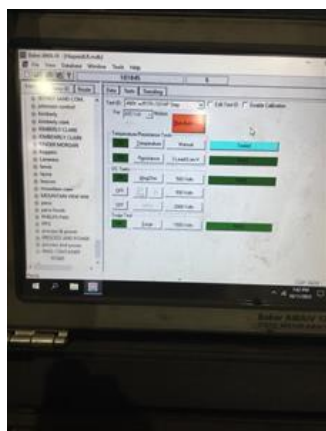
1-3

2-3

18. Perform Surge Test

(P) Pass

P57



19. Number of Stator Slots

60

20. Stator Condition

pass

21. Stator Thermistors/Ohms

na

22. Stator Overloads/Ohms

na

Mechanical Inspection



23. Drive End Bearing Brand

SKF

P14



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24. Drive End Bearing Number-

6313 C3

P30



25. Drive End Bearing Qty.

1

26. Drive End Bearing Type

(Ball) Ball Bearing

P49



27. Drive End Lubrication Type

(Grease) Grease Lubricated

P60



28. Drive End Bearing Insulation or Grounding Device?

none

29. Drive End Wavy Washer/Snap-Ring Other Retention Device?

bearing cap

P72



30. Drive End Bearing Condition

replace

P77



31. Opposite Drive End Bearing Brand

SKF

32. Opposite Drive End Bearing Number-

6313 C3

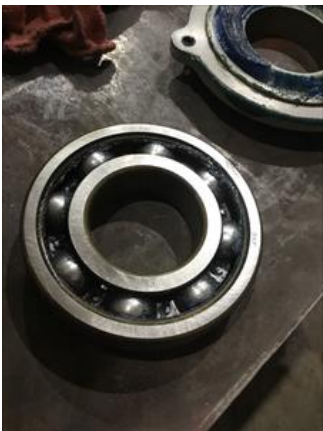
33. Opposite Drive End Bearing Qty.

1

34. Opposite Drive End Bearing Type

(Ball) Ball Bearing

P92



35. Opposite Drive End Lubrication Type

(Grease) Grease Lubricated

P94



36. Opposite Drive End Bearing Insulation or Grounding Device?

none

37. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?

wavy washer

P98



38. Opposite Drive End Bearing Condition

replace

39. Drive End Seal

P101



40. Opposite Drive End Seal

P102



Rotor Inspection



41. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
42. Growler Test	(Pass) Pass
43. Number of Rotor Bars	47
44. Rotor Condition	pass

45. List the Parts needed for the Repair Below
Baldor Fan assembly. Part # 70267

P46



46. Signature of Technician that Disassembled Motor

Terrence Holland

Mechanical Fits- Rotor



47. Shaft Runout	0.002 inches
48. Rotor Runout	



Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing



NA

49.	Coupling Fit Closest to Bearing Housing		
	0 Degrees	90 Degrees	120 Degrees
	NA		
50.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
	NA		
51.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	2.5594	2.5595	2.5594
52.	Drive End Bearing Shaft Fit Condition		(P) Pass
53.	Opposite Drive End Bearing Shaft Fit		P83
	0 Degrees	60 Degrees	120 Degrees
	2.5596	2.5597	2.5597
			
54.	Opposite Drive End Bearing Shaft Fit Condition		(P) Pass
55.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
	NA		
Mechanical Fits- Bearing Housings			
56.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	5.5123	5.5125	5.5123
57.	Drive End - Endbell Bearing Fit Condition		(P) Pass
58.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	5.5118	5.512	5.5119
59.	Opposite Drive End - Endbell Bearing Fit Condition		(P) Pass

60. Bearing Cap Condition

Drive End Bearing Cap
Good, thick lip

Opposite Drive End Bearing Cap
Good thin lip



61. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

NA

62. List Machine Work Needed Below

None

63. Technician

Terrence Holland

A handwritten signature in black ink, which appears to read "Terrence Holland".

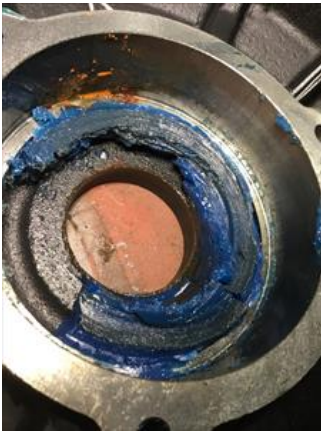
Root Cause of Failure



64. Failure locations

P9

Premature bearing failure due to contamination of grease with moisture.



65. Root cause of failure

Moisture contaminated grease.