



AC Recondition As Found

Weaver-Bailey Contractors

1601 Mayor Lane
Conway, AR 72032

FolderID: 100696
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AC Recondition - Rev. 2

Location: MOTOR SHOP LR

Serial Number: SAH7155712 001

Description: 75HP TECO 1800RPM 365T

Hi-Speed Job Number: 100696

Manufacturer: TECO Westinghouse

Product Number: NP0754

Serial Number: SAH7155712 001

HP/kW: 75 (HP)

RPM: 1775 (RPM)

Frame: 365T

Voltage: 230 / 460

Current: 170.2/85.1

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.15

Enclosure: TEFC

J-box Included: Complete

Coupling/Sheave: None

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Teardown Inspection

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found: ● 4 - High

● 4 - 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
Fan broken, four ea. fan cover mount bolts broken off. Coupling has wear on aft end.

Initial Mechanical/Electrical



5. Does Shaft Turn Freely?	(Yes) Yes
6. Does Shaft Have Visible Damage?	(No) No
7. Assembled Shaft Runout	0.002 Inches
8. Assembled Shaft End Play	
9. Air Gap Variation <10%	



11. Lead Length

12. Frame Condition

pass.

● 13. Fan Condition

(F) Fail

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■ Replacement found


14. Broken or Missing Components

6 fan cover bolts broken off in housing.

Initial Electrical Inspection



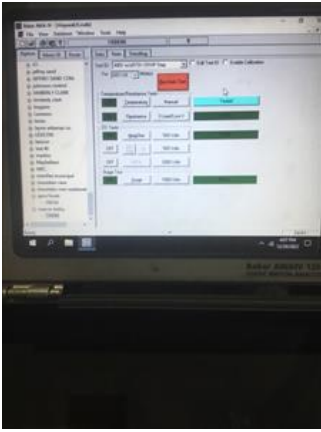
15. Insulation Resistance/Megger

16. Winding Resistance

1-2

1-3

2-3



18. Number of Stator Slots

19. Stator Condition

pass

Mechanical Inspection

20. Drive End Bearing Number-

6313

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21. Drive End Bearing Qty.

1

22. Drive End Bearing Type

(Ball) Ball Bearing

23. Drive End Lubrication Type

(Grease) Grease Lubricated

24. Drive End Bearing Insulation or Grounding Device?

none

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

26. Drive End Bearing Condition

replace

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- | | |
|--|-------------------------------|
| 28. Opposite Drive End Bearing Qty. | 1 |
| 29. Opposite Drive End Bearing Type | (Ball) Ball Bearing |
| 30. Opposite Drive End Lubrication Type | (Grease) Grease Lubricated |
| 31. Opposite Drive End Bearing Insulation or Grounding Device? | none |
| 32. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device? | spacer goes on before bearing |

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- | | |
|--|---------|
| 33. Opposite Drive End Bearing Condition | replace |
| 34. Drive End Seal | none |
| 35. Opposite Drive End Seal | none |

Rotor Inspection

- | | |
|---|--|
| 36. Rotor Type/Material | (Squirrel Aluminum) Squirrel
Cage Aluminum Die Cast |
| 37. Growler Test | (Pass) Pass |
| 38. Number of Rotor Bars | |
| 39. Rotor Condition | pass |
| 40. List the Parts needed for the Repair Below | |
| 41. Signature of Technician that Disassembled Motor | Terrence Holland |

Mechanical Fits- Rotor			
42.	Shaft Runout		0.002 inches
43.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
44.	Coupling Fit Closest to Bearing Housing		
	0 Degrees	90 Degrees	120 Degrees
45.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
46.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	2.5598	2.5598	2.5598
47.	Drive End Bearing Shaft Fit Condition		(P) Pass
48.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	2.5596	2.5596	2.5595
49.	Opposite Drive End Bearing Shaft Fit Condition		(P) Pass
50.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
Mechanical Fits- Bearing Housings			
51.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	Lip worn in.		
52.	Drive End - Endbell Bearing Fit Condition		(F) Fail
	Lip worn in.		
53.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	Lip worn in.		
54.	Opposite Drive End - Endbell Bearing Fit Condition		(F) Fail
	Lip worn in		
55.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	pass	pass	
56.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
57.	List Machine Work Needed Below		
	Both housing fits bad. Drill and tap multiple fan cover mount bolts on ode housing.		

**Root Cause of Failure**

59. Failure locations

Both housing fits bad. D.E. bearing has fatigue damage.

60. Root cause of failure