



AC Recondition As Found
Baldor Warranty Division
685 Mid America Blvd
Hot Springs, AR 71913

FolderID: 100112
FormID: 14228749

AC Recondition - Rev. 2

Location: MOTOR SHOP LR

Serial Number: Z2112140442

Description: 20HP BALDOR 1800RPM 256TC

Hi-Speed Job Number: 100112

Manufacturer: Baldor

Product Number: CEM2334T

Spec/ID #: 09C102T459G1

Serial Number: Z2112140442

HP/kW: 20 (HP)

RPM: 1770 (RPM)

Frame: 256TC

Voltage: 230 / 460

Current: 48/24

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:  2 - Good

Overall Condition



1. Report Date
2. Nameplate Picture

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3. Photos of all six sides of the machine.
4. Describe the Overall Condition of the Equipment as Received

Initial Mechanical/Electrical

| | | |
|----------------------------------|------------------------------------|-----------|
| <input checked="" type="radio"/> | 5. Does Shaft Turn Freely? | (Yes) Yes |
| <input type="radio"/> | 6. Does Shaft Have Visible Damage? | (No) No |
| <input type="radio"/> | 7. Assembled Shaft Runout | |
| <input type="radio"/> | 8. Assembled Shaft End Play | |
| <input type="radio"/> | 9. Air Gap Variation <10% | |
| <input type="radio"/> | 10. Lead Condition | |
| <input type="radio"/> | 11. Lead Length | |
| <input type="radio"/> | 12. Frame Condition | |

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| | | | |
|---|--|--|----------------------------|
| 13. | Fan Condition | (P) Pass | |
| 14. | Broken or Missing Components | | |
| Initial Electrical Inspection | | | |
| 15. | Insulation Resistance/Megger | | |
| 16. | Winding Resistance | | |
| | 1-2 | 1-3 | 2-3 |
| 17. | Perform Surge Test | | |
| 18. | Stator Condition | | |
| Mechanical Inspection | | | |
| 19. | Drive End Bearing Number- | | |
| 20. | Drive End Bearing Qty. | 1 | |
| 21. | Drive End Bearing Type | (Ball) Ball Bearing | |
| 22. | Drive End Lubrication Type | (Grease) Grease Lubricated | |
| 23. | Drive End Bearing Insulation or Grounding Device? | none | |
| 24. | Drive End Wavy Washer/Snap-Ring Other Retention Device? | none | |
| 25. | Drive End Bearing Condition | | |
| 26. | Opposite Drive End Bearing Number- | | |
| 27. | Opposite Drive End Bearing Qty. | 1 | |
| 28. | Opposite Drive End Bearing Type | (Ball) Ball Bearing | |
| 29. | Opposite Drive End Lubrication Type | (Grease) Grease Lubricated | |
| 30. | Opposite Drive End Bearing Insulation or Grounding Device? | | |
| 31. | Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device? | yes | |
| 32. | Opposite Drive End Bearing Condition | | |
| 33. | Drive End Seal | dust seal | |
| 34. | Opposite Drive End Seal | | |
| Rotor Inspection | | | |
| 35. | Rotor Type/Material | (Squirrel Aluminum) Squirrel Cage Aluminum Die Cast | |
| 36. | Growler Test | | |
| 37. | Number of Rotor Bars | | |
| 38. | Rotor Condition | | |
| 39. | List the Parts needed for the Repair Below | | |
| 40. | Signature of Technician that Disassembled Motor | Terrence. Holland | |
|  | | | |
| Mechanical Fits- Rotor | | | |
| 41. | Shaft Runout | | |
| 42. | Rotor Runout | | |
| | Drive End Bearing Fit | Rotor Body | Opposite Drive End Bearing |
| 43. | Coupling Fit Closest to Bearing Housing | | |
| | 0 Degrees | 90 Degrees | 120 Degrees |

| | | | |
|-----------------------------------|--|--------------------------------|-------------|
| 44. | Coupling Fit Closest to the end of the Shaft | | |
| | 0 Degrees | 60 Degrees | 120 Degrees |
| | | | |
| 45. | Drive End Bearing Shaft Fit | | |
| | 0 Degrees | 60 Degrees | 120 Degrees |
| | | | |
| 46. | Drive End Bearing Shaft Fit Condition | | |
| 47. | Opposite Drive End Bearing Shaft Fit | | |
| | 0 Degrees | 60 Degrees | 120 Degrees |
| | | | |
| 48. | Opposite Drive End Bearing Shaft Fit Condition | | |
| 49. | Shaft Air Seal Fits | | |
| | Drive End Air Seal | Opposite Drive End Air Seal | |
| | | | |
| Mechanical Fits- Bearing Housings | | | |
| 50. | Drive End - Endbell Bearing Fit | | |
| | 0 Degrees | 60 Degrees | 120 Degrees |
| | | | |
| 51. | Drive End - Endbell Bearing Fit Condition | | |
| 52. | Opposite Drive End - Endbell Bearing Fit | | |
| | 0 Degrees | 60 Degrees | 120 Degrees |
| | | | |
| 53. | Opposite Drive End - Endbell Bearing Fit Condition | | |
| 54. | Bearing Cap Condition | | |
| | Drive End Bearing Cap | Opposite Drive End Bearing Cap | |
| | | | |
| 55. | End Bell Air Seal Fits | | |
| | Drive End Air Seal | Opposite Drive End Air Seal | |
| | | | |
| 56. | List Machine Work Needed Below | | |
| 57. | Technician | | |
| Root Cause of Failure | | | |
| 58. | Failure locations <i>Windings shorted in slot</i> | | |
| 59. | Root cause of failure | | |