Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

# AC Recondition As Found

**Remington (10243)**
2592 AR Hwy 15 N
Lonoke, AR 72086

FolderID: 100568
FormID: 15421189

**AC Recondition - Rev. 2**

| | |
|---|---|
| **Location:** | MOTOR SHOP LR |
| **Serial Number:** | P07020114 |

**Description:** 2.6KW RENI CIRILLO 1800RPM SHAKER

| | |
|---|---|
| **Hi-Speed Job Number:** | 99908 |
| **Manufacturer:** | Other |
| **Product Number:** | PVF-F 270 |
| **Serial Number:** | P07020114 |
| **HP/kW:** | 2.6 (kW) |
| **RPM:** | 1500 (RPM) |
| **Voltage:** | 230 / 460 |
| **Current:** | 12/7 |
| **Phase:** | Three |
| **Hz:** | 60 (Hz) |
| **J-box Included:** | None |
| **Coupling/Sheave:** | None |
| **Date Received:** | 06/10/2022 |
| **Bearing RTDs:** | No |
| **Stator RTDs:** | No |
| **Repair Stage:** | Final |
| **Heaters:** | No |
| **Winding Type :** | Random Wound |
| **Bearing Type:** | Rolling Element |

## Overall Condition

1. Report Date
2. Nameplate Picture
3. Photos of all six sides of the machine.
4. Describe the Overall Condition of the Equipment as Received

## Initial Mechanical/Electrical

5. Does Shaft Turn Freely?
6. Does Shaft Have Visible Damage?
7. Assembled Shaft Runout
8. Assembled Shaft End Play
9. Air Gap Variation <10%
10. Lead Condition
11. Lead Length
12. Frame Condition
13. Fan Condition
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. | Number of Stator Slots | | |
| 19. | Stator Condition | | |
| **Mechanical Inspection** | | | |
| 20. | Drive End Bearing Brand | | |
| 21. | Drive End Bearing Number- | | |
| 22. | Drive End Bearing Qty. | | |
| 23. | Drive End Bearing Type | | |
| 24. | Drive End Lubrication Type | | |
| 25. | Drive End Bearing Insulation or Grounding Device? | | |
| 26. | Drive End Wavy Washer/Snap-Ring Other Retention Device? | | |
| 27. | Drive End Bearing Condition | | |
| 28. | Opposite Drive End Bearing Brand | | |
| 29. | Opposite Drive End Bearing Number- | | |
| 30. | Opposite Drive End Bearing Qty. | | |
| 31. | Opposite Drive End Bearing Type | | |
| 32. | Opposite Drive End Lubrication Type | | |
| 33. | Opposite Drive End Bearing Insulation or Grounding Device? | | |
| 34. | Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device? | | |
| 35. | Opposite Drive End Bearing Condition | | |
| 36. | Drive End Seal | | |
| 37. | Opposite Drive End Seal | | |
| **Rotor Inspection** | | | |
| 38. | Rotor Type/Material | | |
| 39. | Growler Test | | |
| 40. | Number of Rotor Bars | | |
| 41. | Rotor Condition | | |
| 42. | List the Parts needed for the Repair Below | | |
| 43. | Signature of Technician that Disassembled Motor | | |
| **Mechanical Fits- Rotor** | | | |
| 44. | Shaft Runout | | |
| 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 |
| 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 |
| 49. | Drive End Bearing Shaft Fit Condition | | |

| | | | |
|---|---|---|---|
| 50. | Opposite Drive End Bearing Shaft Fit | | |
| | 0 Degrees | 60 Degrees | 120 Degrees |
| 51. | Opposite Drive End Bearing Shaft Fit Condition | | |
| 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 |
| 54. | Drive End - Endbell Bearing Fit Condition | | |
| 55. | Opposite Drive End - Endbell Bearing Fit | | |
| | 0 Degrees | 60 Degrees | 120 Degrees |
| 56. | Opposite Drive End - Endbell Bearing Fit Condition | | |
| 57. | Bearing Cap Condition | | |
| | Drive End Bearing Cap | Opposite Drive End Bearing Cap | |
| 58. | End Bell Air Seal Fits | | |
| | Drive End Air Seal | Opposite Drive End Air Seal | |
| 59. | List Machine Work Needed Below | | |
| 60. | Technician | | |

## Dynamic Balance Report

| | | | |
|---|---|---|---|
| 61. | Rotor Weight and Balance Grade | | |
| | Rotor Weight | Balance Grade | |
| 62. | Initial Balance Readings | | |
| | Drive End | Opposite Drive End | |
| 63. | Final Balance Readings | | |
| | Drive End | Opposite Drive End | |
| 64. | Technician | | |

## 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 |

P0

| 0 Degrees | 60 Degrees | 120 Degrees |
|---|---|---|
| **7.0865** | **7.0865** | **7.0864** |

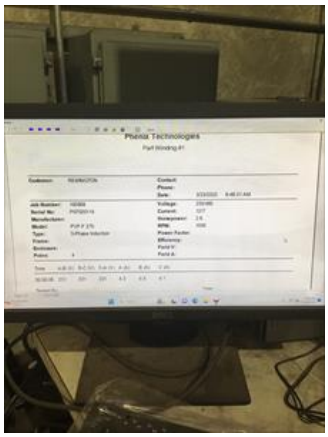
| | |
|---|---|
| 84. | Opposite Drive End - Endbell Bearing Fit Post Repair |

| 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 | | |

## 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 | | P2300 |


101. Final Pics and QC Review **Terrence Holland** P2400