

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

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FolderID: 100915 FormID: 15984938

AC Recondition As Found Almatis Inc/RCP Bauxite (10014)

4701 Alcoa Road Bauxite, AR 72011

AC Recondition - Rev. 2

Location: LR Motor Shop

F220-50-W04W048R125M Serial Number:

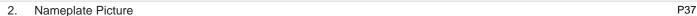
| Description:75HP | US MOTORS | 1800RPM 365T |
|------------------|-----------|--------------|

| Hi-Speed Job Number: | 100915 |
|----------------------|----------------------|
| Manufacturer: | US Motors/Nidec |
| Serial Number: | F220-50-W04W048R125M |
| HP/kW: | 75 (HP) |
| RPM: | 1780 (RPM) |
| Frame: | 365T |
| Voltage: | 230 / 460 |
| Current: | 178/89 |
| Phase: | Three |
| Hz: | 60 (Hz) |
| Service Factor: | 1.15 |
| Enclosure: | TEFC |
| J-box Included: | None |
| Coupling/Sheave: | Coupling |
| Bearing RTDs: | No |
| Stator RTDs: | No |
| Repair Stage: | Final |
| Heaters: | No |
| Winding Type : | Random Wound |
| Bearing Type: | Rolling Element |

Priorities Found: 1 - High

Overall Condition

Report Date 1.





3. Photos of all six sides of the machine. P44

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- 4. Describe the Overall Condition of the Equipment as Received
- 5. Distance from the end of the shaft to the Coupling/Sheave

Initial Mechanical/Electrical



6. Does Shaft Turn Freely?

(No) No

Replacement needed.

Does Shaft Have Visible Damage?





- 8. Assembled Shaft Runout
- 9. Assembled Shaft End Play
- 10. Air Gap Variation <10%
- 11. Lead Condition P53



- 12. Lead Length
- 13. Frame Condition
- 14. Fan Condition
- 15. Broken or Missing Components

Initial Electrical Inspection

- 16. Insulation Resistance/Megger
- 17. Winding Resistance

1-2 1-3 2-3

- 18. Perform Surge Test
- 19. Number of Stator Slots
- 20. Stator Condition

Mechanical Inspection

- 21. Drive End Bearing Brand
- 22. Drive End Bearing Number-
- 23. Drive End Bearing Qty.
- 24. Drive End Bearing Type

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| 0.5 | D: E II I : : | | | |
|------------------|---|--------------------------------------|----------------------------|--|
| 25. | Drive End Lubrication Type | | | |
| 26. | Drive End Bearing Insulation or Grounding Device? | | | |
| 27. | Drive End Wavy Washer/Snap-Ring Other Retention Device? | | | |
| 28. | Drive End Bearing Condition | | | |
| 29. | Opposite Drive End Bearing Bra | | | |
| 30. | Opposite Drive End Bearing Nu | | | |
| 31. | Opposite Drive End Bearing Qt | | | |
| 32. | Opposite Drive End Bearing Ty | | | |
| 33. | Opposite Drive End Lubrication | • • | | |
| 34. | Opposite Drive End Bearing Ins | | | |
| 35. | | her/Snap-Ring Other Retention Device | 9? | |
| 36. | Opposite Drive End Bearing Co | naition | | |
| 37. | Drive End Seal | | | |
| 38. | Opposite Drive End Seal | | | |
| | Inspection | | | |
| 39. | Rotor Type/Material | | | |
| 40. | Growler Test | | | |
| 41. | Number of Rotor Bars | | | |
| 42. | Rotor Condition | annais Dalass | | |
| 43. | List the Parts needed for the Repair Below | | | |
| 44. | Signature of Technician that Dis | sassembled Motor | | |
| | inical Fits- Rotor | | | |
| 45. | Shaft Runout | | | |
| 46. | Rotor Runout | D . D . | 0 " D: E ID : | |
| | Drive End Bearing Fit | Rotor Body | Opposite Drive End Bearing | |
| 47 | On the Fit Olandat to Danier | Have been | | |
| 47. | Coupling Fit Closest to Bearing | | 400 D | |
| | 0 Degrees | 90 Degrees | 120 Degrees | |
| 40 | Coupling Fit Classest to the and | of the Chaft | | |
| 48. | 3 | | 420 Degrees | |
| | 0 Degrees | 60 Degrees | 120 Degrees | |
| 40 | Drive End Booring Choft Fit | | | |
| 49. | Drive End Bearing Shaft Fit | CO D | 400 Damas | |
| | 0 Degrees | 60 Degrees | 120 Degrees | |
| 50. | Drive End Rearing Shoft Eit Co. | adition | | |
| 50. | Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit | | | |
| 51. | 0 Degrees | 60 Degrees | 120 Degrees | |
| | o Degrees | 00 Degrees | 120 Deglees | |
| 52. | Opposite Drive End Bearing Sh | aft Fit Condition | | |
| 53. | Shaft Air Seal Fits | a n condition | | |
| 50. | Drive End Air Seal | Opposite Drive End Air Seal | | |
| | Dilvo Elia Ali Goal | Opposite Diffe Life All Geal | | |
| Mecha | nical Fits- Bearing Housing | 9 | | |
| 54. | Drive End - Endbell Bearing Fit | | | |
| J 4 . | 0 Degrees | 60 Degrees | 120 Degrees | |
| | o Degrees | ou Degrees | 120 Deglees | |
| 55. | Drive End - Endhell Boaring Eit | Condition | | |
| 55. | Drive End - Endbell Bearing Fit Condition | | | |

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| | Opposite Drive Food - Foodball Dee | uiu a. Eis | |
|------------|------------------------------------|--------------------------------|---|
| 56. | Opposite Drive End - Endbell Bea | | 400 D |
| | 0 Degrees | 60 Degrees | 120 Degrees |
| 57. | Opposite Drive End - Endbell Bea | ring Eit Condition | |
| 58. | Bearing Cap Condition | Ting Fit Condition | |
| 56. | | Opposite Drive End Bearing Cap | |
| | Drive End Bearing Cap | Opposite Drive End Bearing Cap | |
| 59. | End Bell Air Seal Fits | | |
| 55. | Drive End Air Seal | Opposite Drive End Air Seal | |
| | Drive Eria Ali Seai | Opposite Drive End Air Sear | |
| 60. | List Machine Work Needed Below | | |
| 00. | Needs new shaft made | | |
| 61. | Technician | | Terrence Holland |
| 0 | - | / / / | 101101101111111111111111111111111111111 |
| | 1 | | |
| | / - / | | |
| / | | | |
| | | | |
| Dvnan | nic Balance Report | | |
| 62. | Rotor Weight and Balance Grade | | |
| | Rotor Weight | Balance Grade | |
| | Treater Treagni | 24.400 | |
| 63. | Initial Balance Readings | | |
| | Drive End | Opposite Drive End | |
| | | | |
| 64. | Final Balance Readings | | |
| | Drive End | Opposite Drive End | |
| | | • | |
| 65. | Technician | | |
| Rewine | d | | |
| 66. | Core Test Results - Watts loss pe | r Pound | |
| | Pre-Burnout | Post Burnout | |
| | | | |
| 67. | Core Hot Spot Test | | |
| | Pre-Burnout | Post-Burnout | |
| | | | |
| 68. | Post Rewind Electrical Test- Insul | ation Resistance | |
| 69. | Post Rewind Polarization Index | | |
| 70. | Post Rewind Winding Resistance | | |
| | 1-2 | 1-3 | 2-3 |
| | | | |
| 71. | Post Rewind Surge Test | | |
| / 1. | | | |
| 71. | Post Rewind Hi-Pot | | |
| 72. | Post Rewind Hi-Pot Technician | | |
| 72. 73. | | | |
| 72. 73. | Technician | | |

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| Mecha | nical Fits- Rotor - Post Repair | | |
|-------|--|---------------------------------------|----------------------------|
| 76. | Shaft Runout Post Repair | | |
| 77. | Rotor Runout Post Repair | | |
| | Drive End Bearing Fit | Rotor Body | Opposite Drive End Bearing |
| | | | |
| 78. | Coupling Fit Closest to Bearing He | · · · · · · · · · · · · · · · · · · · | |
| | 0 Degrees | 90 Degrees | 120 Degrees |
| 70 | 0 1 5:01 | 11 OL 11 D. 1 | |
| 79. | Coupling Fit Closest to the end of | · | 120 Dograda |
| | 0 Degrees | 60 Degrees | 120 Degrees |
| 80. | Drive End Bearing Shaft Fit Post I | Repair | |
| 00. | 0 Degrees | 60 Degrees | 120 Degrees |
| | 0 2 0g. 000 | 00 D0g.000 | 120 2 0g. 000 |
| 81. | Opposite Drive End Bearing Shaft | Fit Post Repair | |
| | 0 Degrees | 60 Degrees | 120 Degrees |
| | | | |
| 82. | Shaft Air Seal Fits Post Repair | | |
| | Drive End Air Seal | Opposite Drive End Air Seal | |
| | 01 " D | | |
| 83. | 1 0 | Doct Donois | |
| | nical Fits- Bearing Housings - Drive End - Endbell Bearing Fit Po | - | |
| 04. | • | · | 120 Dograpa |
| | 0 Degrees | 60 Degrees | 120 Degrees |
| 85. | Opposite Drive End - Endbell Bea | ring Fit Post Repair | |
| | 0 Degrees | 60 Degrees | 120 Degrees |
| | 3 | ő | J |
| 86. | Bearing Cap Condition Post Repa | ir | |
| | Drive End Bearing Cap | Opposite Drive End Bearing Cap | |
| | | | |
| 87. | End Bell Air Seal Fits Post Repair | | |
| | Drive End Air Seal | Opposite Drive End Air Seal | |
| 88. | End Bell Repair Sign-off | | |
| Assem | | | |
| 89. | Photograph All Major Components | s prior to assembly | |
| 90. | Final Insulation Resistance Test | phonic to decembly | |
| 91. | Assembled Shaft Endplay | | |
| 92. | Assembled Shaft Runout | | |
| 93. | Test Run Voltage | | |
| | Volts | Volts | Volts |
| | | | |
| 94. | Test Run Amperage | | |
| | Amps | Amps | Amps |
| | | | |

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| 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. | Final Test Run Sign-off | | |
| 101. | Document Final Condition with Pi | ctures after paint | |
| 102. | Final Pics and QC Review | | |
| | | | |

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