



KEEPING YOUR FACILITY UP TO SPEED
— EVERY DAY SINCE 1946 —

Motor Shop Repairs

Job Number 97663

Prepared for 3M-Main Plant (10001)

310 Walter Road
Little Rock AR 72216

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AC Recondition Repair Report

1.0

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AC Recondition Repair Report

FolderID: 97663
FormID: 9592680

3M-Main Plant (10001)

310 Walter Road
Little Rock, AR 72216

Priorities Found: ● 2 - High ● 13 - Good

General

1. Job Number	97663
2. Report Date	
3. Customer	3M

Name Plate Information

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4. Manufacturer

SIEMENS



5. Model

TYPE: RGZESDX

6. Serial Number

J05T0771EE

7. Horsepower

250

8. KW

9. Volts

460

10. Amps

280.0

11. RPM

1185

12. Frame

449T

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13. Enclosure	
14. Cycles	60
15. Phase	3
16. Service Factor	1.15
17. Motor Mount Position	

Initial Inspection

18. Number of Leads	6
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19. Lead Length	16 Inches
20. Lead Size	2
21. Lead Condition	(P) Pass
22. Lead Markings	1,1 2,2 3,3
23. Lug Size, Condition, and Type	
24. Winding RTD's	(NA) Not Applicable
25. Winding Rtd's Condition	(NA) Not Applicable
26. Shaft Run Out	
27. Does Shaft Turn Freely	no
28. Does Shaft Have Visible Damage	
29. Bearing Rtd's	(NA) Not Applicable
30. Bearing Rtd's Condition	(NA) Not Applicable
31. Contamination	
32. Frame Condition	(P) Pass
33. Fan Condition	(P) Pass



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34. Broken or missing components	
Initial Electric Test	
35. Resistance to Ground	0 Mohm
36. Winding Resistance 1-2	
37. Winding Resistance 2-3	
38. Winding Resistance 1-3	
39. Resistive Imbalance	
40. Hi-Pot	
● 41. Surge Test	(F) Fail
42. Stator Condition	rewind
43. Failure Location	in slot



Initial Rotor Inspection

44. Rotor Type

cast aluminum



45. Air Gap <10% Variation

46. Number of Rotor Bars

0

47. Number of Broken Rotor Bars

54

● 48. Growler Test

(P) Pass

● 49. Rotor Condition

(P) Pass



Mechanical Inspection

50. Bearing Manufacture

Loyola



51. Bearing DE Size	NU320
52. Bearing DE Type	Roller
53. DE Bearing Qty.	1
54. Bearing ODE Size	6316ZZC3



55. Bearing ODE Type	ball
56. ODE Bearing Qty.	1

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57. Insulated Bearing	no
58. Lubrication Type	grease
59. Grease Condition	(NA) Not Applicable
<div> <div></div> <div>The grease is hard</div> </div>	
60. Bearing Retainers	(Y) Yes
61. Shaft Grounding Device	(NA) Not Applicable
62. DE Seal	(Y) Yes
<div> <div></div> <div>Improve seal needs replaced</div> </div>	



63. DE Seal Type/Size	
64. ODE Seal	
65. ODE Seal Type/Size	
Root Cause of Failure	
66. Component Failure	
67. Cause of Failure	
68. Comments	
69. Service Technician	
Machine Fit Inspection Report	
70. Shaft Run Out	
71. Initial Shaft Run Out	
72. Final Shaft Run Out	

73. DE Bearing Shaft Fit

(F) Fail



74. DE Initial Shaft Bearing Fit Size 1	3.9375 "
75. DE Initial Shaft Bearing Fit Size 2	3.9379 "
76. DE Initial Shaft Bearing Fit Size 3	3.9382 "
77. DE Finial Shaft Bearing Fit Size 1	3.9381 "




78. DE Finial Shaft Bearing Fit Size 2	3.9381 "
79. DE Finial Shaft Bearing Fit Size 3	3.9382 "
80. ODE Bearing Shaft Fit	(P) Pass



81. ODE Initial Shaft Bearing Fit Size 1	3.1502 "
82. ODE Initial Shaft Bearing Fit Size 2	3.1502 "

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83.	ODE Initial Shaft Bearing Fit Size 3	3.1502 "
84.	ODE Finial Shaft Bearing Fit Size 1	
85.	ODE Finial Shaft Bearing Fit Size 2	
86.	ODE Finial Shaft Bearing Fit Size 3	
87.	DE Air Seal Shaft Fit	
88.	DE Initial Air Seal Shaft Size	
89.	DE Final Air Seal Shaft Size	
90.	ODE Air Seal Shaft Fit	
91.	ODE Initial Air Seal Shaft Size	
92.	ODE Final Air Seal Shaft Size	
93.	DE Endbell Fit	(P) Pass
	<i>Out put shaft hole needs to be sleeved for inpro seal</i>	
		
94.	DE Initial Endbell Fit Size 1	8.4648 "
95.	DE Initial Endbell Fit Size 2	8.4648 "
96.	DE Initial Endbell Fit Size 3	8.4648 "
97.	DE Final Endbell Fit Size 1	
98.	DE Finial Endbell Fit Size 2	
99.	DE Final Endbell Fit Size 3	
100.	DE Endbell Fit Insulated	
101.	DE Endbell Air Seal Fit	
102.	Initial Endbell Air Seal Fit Size	
103.	Finial Endbell Air Seal Fit Size	
104.	ODE Endbell Fit	(P) Pass



105. ODE Initial Endbell Fit Size 1	6.6939 "
106. ODE Initial Endbell Fit Size 2	6.6939 "
107. ODE Initial Endbell Fit Size 3	6.6939 "
108. ODE Final Endbell Fit Size 1	
109. ODE Final Endbell Fit Size 2	
110. ODE Final Endbell Fit Size 3	
111. ODE Endbell Fit Insulated	
112. ODE Endbell Air Seal Fit	
113. ODE Initial Endbell Seal Fit Size	
114. ODE Final Endbell Seal Fit Size	
115. Foot Flatness	(P) Pass
116. Foot Condition	(P) Pass
117. Flange Condition	
118. Service Technician	RW
Balancing Report	
119. Balance Type	



120. Balance Operating Speed
121. Start Left End
122. Start Right End
123. Balancing Specification
124. Finish Left End
125. Finish Right End

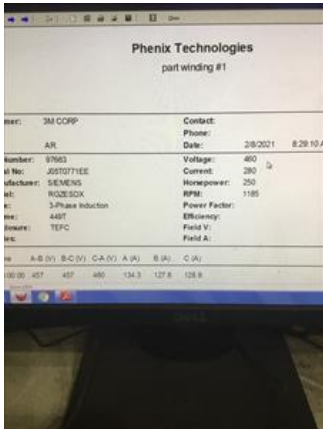
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126. Service Technician

Assembly and Final Test

127. Meggar Testing Reading

Mohm



128. Surge Test

129. Hi-Pot

130. Winding Resistance 1-2

131. Winding Resistance 2-3

132. Winding Resistance 1-3

133. Test Run Voltage Phase A

134. Test Run Amps A

135. Test Run Voltage Phase B

136. Test Run Amps B

137. Test Run Voltage Phase C

138. Test Run Amps C

139. DE Horizontal Vibration Reading

140. DE Vertical Vibration Reading

141. DE Axial Vibration Reading

142. ODE Horizontal Vibration Reading

143. ODE Vertical Vibration Reading

144. ODE Axial Vibration Reading

145. Ambient Temp at start of Test Run

146. Temp at 5 minutes

147. Temp at 10 minutes

148. Temp at 15 minutes

149. Temp at 20 minutes

150. Temp at 25 minutes

151. Temp at 30 minutes

152. Temp at 35 minutes

153. Temp at 40 minutes

154. Temp at 45 minutes

155. Temp at 50 minutes

156. Temp at 55 minutes

157. Temp at 60 minutes

158. Motor Paint

(P) Pass

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159. Service Technician

David Maclin

A handwritten signature in black ink, appearing to read "David Maclin", written across the signature line.



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1. **APPLICABILITY.** The sale of any and all goods and/or services by Mock, Inc. d/b/a Hi-Speed Industrial Service ("Hi-Speed") shall be specifically conditioned upon and subject to the following terms and conditions which are incorporated by reference into any contracts and purchase orders with Hi-Speed, and which shall form and become a part of any agreement related thereto. Buyer's acceptance of any offer or quotation made by Hi-Speed for sale of any goods or services is expressly made subject to the terms and conditions set forth herein and to be so effective, Buyer need not sign or approve these Terms and Conditions to be bound hereunder provided a copy of same is provided to Buyer through any means. None of the terms and conditions contained herein may be added to, expanded, changed, modified, superseded or otherwise altered except as revised in writing and duly executed by Hi-Speed, and all orders received by Hi-Speed shall be governed only by the terms and conditions contained herein, notwithstanding any terms, conditions or provisions of any purchase order, release order, authorization or any other form issued by the Buyer. Hi-Speed hereby objects to any additional, modified, changed, deleted, altered or other terms and conditions not contained herein and notifies Buyer that any such terms or provisions are expressly rejected by Hi-Speed.
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4. **BILLING AND PAYMENT TERMS.** Hi-Speed shall invoice Buyer for all goods and/or services as same are rendered at the address listed on the quotation. Payments for all goods and/or services shall be due thirty (30) days from the date of the current invoice or as otherwise set forth in the quotation. Late payments are subject to a late fee of 5% of the total invoice amount. Recurring late payments may lead to a deposit requirement on future services or sale of goods. Buyer shall be liable to Hi-Speed for any and all fees and expenses incurred by Hi-Speed to collect any invoices or to enforce these Standard Terms and Conditions, including but not limited to, attorney's fees.
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8. **WARRANTIES.** Hi-Speed warrants that all goods shall conform in all material aspects to the goods identified in the quotation to Buyer and/or purchase order, and Hi-Speed makes to Buyer the manufacturer's express warranty for any goods sold to Buyer, which is offered by the manufacturer at the time of acceptance of any quotation by Buyer. This warranty is conditioned upon the installation, operation, and maintenance of the goods in accordance with the manufacturer's recommendations and/or standard industry practice and the goods at all times being operated or used under normal operating conditions for which they were designed. Hi-Speed, at its sole option, will repair or

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13. **FORCE MAJEURE.** Neither party shall be responsible for any delay or failure in performance of any party of the quotation, purchase order or these Standard Terms and Conditions to the extent that such delays or failures are caused by fire, flood, earthquake, explosion, war, embargo, government requirement, civil or military authority, acts of God, or any other circumstances beyond its reasonable control and not involving any fault or negligence on the party affected ("Condition"). If any such Condition occurs, the party delayed or unable to perform shall promptly give written notice to the other party and, if such Condition remains at the end of thirty (30) days, the party affected by the other party's delay and inability to perform may elect to (i) terminate such order or part thereof, or (ii) suspend the order for the duration of the Condition, if the Buyer is the suspending party, buy elsewhere comparable material to be sold under the order and apply to any commitment the purchase price of such purchase, and resume performance of the order once the Condition ceases, with an option in the affected party to extend the period of this order up to the length of the time the Condition endures.
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16. **NO INDIVIDUAL LIABILITY.** Notwithstanding any other agreement to the contrary, the Buyer agrees that in no event will the Buyer hold and Hi-Speed owner, director, officer or employee personally liable for unintentional tortious conduct or conduct that constitutes the breach of any contract between Hi-Speed and the Buyer, even if the Hi-Speed owner, director, officer or employee is or could be construed to be a party to such contract.