

AC Recondition Repair Report

FolderID: 99152
 FormID: 12417519

3M-Main Plant (10001)
 310 Walter Road
 Little Rock, AR 72216

Priorities Found: ● 4 - High ● 14 - Good

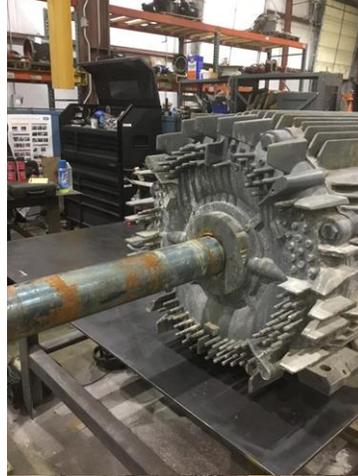
General

1. Job Number	99152
2. Report Date	12/22/2021
3. Customer	3M

Name Plate Information

4. Manufacturer	GE	P5
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5. Model	5KG509SN602P
6. Serial Number	WM6362002
7. Horsepower	100
8. KW	
9. Volts	460
10. Amps	134
11. RPM	595
12. Frame	509Z
13. Enclosure	TEFC
14. Cycles	60
15. Phase	3

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16. Service Factor	1.15	
17. Motor Mount Position		
Initial Inspection		
18. Number of Leads	3	P13
		
19. Lead Length	17 Inches	
20. Lead Size	2	
● 21. Lead Condition	(P) Pass	P42
		
22. Lead Markings		
23. Lug Size, Condition, and Type		
● 24. Winding RTD's	(Y) Yes	
● 25. Winding Rtd's Condition	(P) Pass	P79
		

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26. Shaft Run Out

P84

Broken shaft. Machine new shaft.



27. Does Shaft Turn Freely

no

28. Does Shaft Have Visible Damage

yes Shaft broken behind bearing

P94



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

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Initial Electric Test

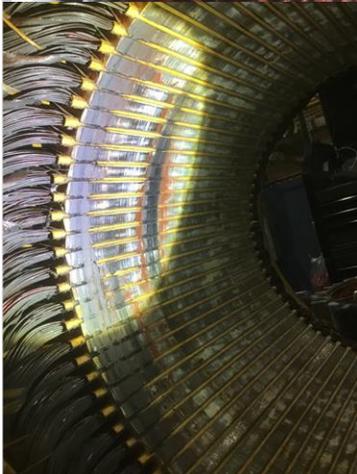
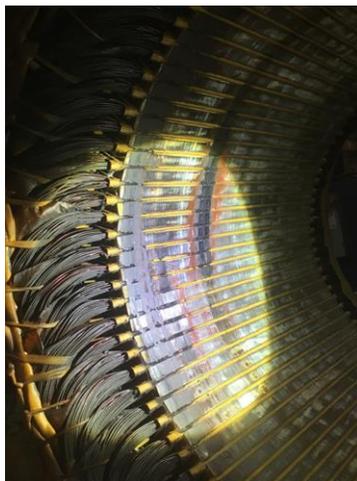


35.	Resistance to Ground	0 Mohm
36.	Winding Resistance 1-2	
37.	Winding Resistance 2-3	
38.	Winding Resistance 1-3	
39.	Resistive Imbalance	
40.	Hi-Pot	
●	41. Surge Test	(F) Fail
■	<i>Rewind</i>	

42. Stator Condition

rewind with core repair

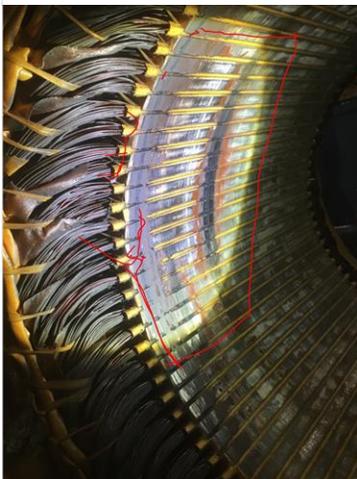
P65



43. Failure Location

Two to six inches on iron

P68



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Initial Rotor Inspection



44. Rotor Type

cast aluminum

P4



45. Air Gap <10% Variation

46. Number of Rotor Bars

47. Number of Broken Rotor Bars

48. Growler Test

● 49. Rotor Condition

(P) Pass

Mechanical Inspection



50. Bearing Manufacture

SKF

51. Bearing DE Size

NU320

P15



52. Bearing DE Type

roller Bearing

53. DE Bearing Qty.

1



55. Bearing ODE Type

ball bearing

56. ODE Bearing Qty.

1

57. Insulated Bearing

no

58. Lubrication Type

grease

59. Grease Condition

(P) Pass

P74



60. Bearing Retainers

61. Shaft Grounding Device

(NA) Not Applicable

62. DE Seal

(NA) Not Applicable

63. DE Seal Type/Size

64. ODE Seal

(NA) Not Applicable

65. ODE Seal Type/Size

Root Cause of Failure

66. Component Failure

Output Shaft

67. Cause of Failure

Shaft broke behind drive bearing. Rotor drag iron caused motor to go to ground

68. Comments

69. Service Technician

RW

Machine Fit Inspection Report



70.	Shaft Run Out		
71.	Initial Shaft Run Out		
72.	Final Shaft Run Out		
● 73.	DE Bearing Shaft Fit	(P) Pass	
74.	DE Initial Shaft Bearing Fit Size 1		
75.	DE Initial Shaft Bearing Fit Size 2		
76.	DE Initial Shaft Bearing Fit Size 3		
77.	DE Finial Shaft Bearing Fit Size 1		
78.	DE Finial Shaft Bearing Fit Size 2		
79.	DE Finial Shaft Bearing Fit Size 3		
● 80.	ODE Bearing Shaft Fit	(P) Pass	
81.	ODE Initial Shaft Bearing Fit Size 1		
82.	ODE Initial Shaft Bearing Fit Size 2		
83.	ODE Initial Shaft Bearing Fit Size 3		
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	(F) Fail	P129
	 <i>Resleeve bearing housing and output hole in end bell</i>		
			
94.	DE Initial Endbell Fit Size 1	8.466200000000001 "	
95.	DE Initial Endbell Fit Size 2	8.466200000000001 "	
96.	DE Initial Endbell Fit Size 3	8.466200000000001 "	
97.	DE Final Endbell Fit Size 1	8.465 "	P138

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98.	DE Final Endbell Fit Size 2	8.465 "	
99.	DE Final Endbell Fit Size 3	8.465 "	
100.	DE Endbell Fit Insulated		
101.	DE Endbell Air Seal Fit		
102.	Initial Endbell Air Seal Fit Size		
103.	Final Endbell Air Seal Fit Size		
● 104.	ODE Endbell Fit	(F) Fail	
105.	ODE Initial Endbell Fit Size 1	6.3014 "	
106.	ODE Initial Endbell Fit Size 2	6.3014 "	
107.	ODE Initial Endbell Fit Size 3	6.3014 "	
108.	ODE Final Endbell Fit Size 1	6.2995 "	P149



109.	ODE Final Endbell Fit Size 2	6.2995 "	
110.	ODE Final Endbell Fit Size 3	6.2995 "	
● 111.	ODE Endbell Fit Insulated	(N) No	
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	(NA) Not Applicable	

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RW

Balancing Report

119. Balance Type

Nema standard

P6



120. Balance Operating Speed

121. Start Left End

122. Start Right End

123. Balancing Specification

124. Finish Left End

125. Finish Right End

126. Service Technician

Assembly and Final Test

127. Meggar Testing Reading

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

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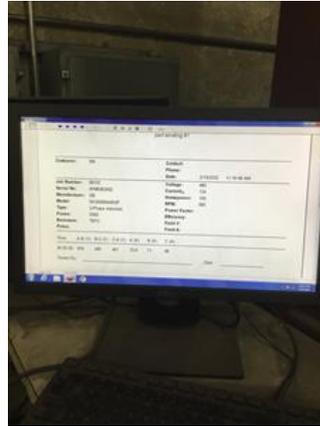
- 146. Temp at 5 minutes
- 147. Temp at 10 minutes
- 148. Temp at 15 minutes
- 149. Temp at 20 minutes
- 150. Temp at 25 minutes
- 151. Temp at 30 minutes
- 152. Temp at 35 minutes
- 153. Temp at 40 minutes
- 154. Temp at 45 minutes
- 155. Temp at 50 minutes
- 156. Temp at 55 minutes
- 157. Temp at 60 minutes

● 158. Motor Paint

(P) Pass

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159. Service Technician

Terrence. Holland

A handwritten signature in black ink, reading "Terrence Holland".