



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

AC Recondition Repair Report

FolderID: 97921
FormID: 10132499

ARKANSAS ELECTRIC SERVICES
1421 E. 9TH STREET SUITE C
LITTLE ROCK, AR 72202

Priorities Found: ● 1 - High ● 15 - Good

General

1. Job Number	97921
2. Report Date	03/02/2021
3. Customer	ARKANSAS ELECTRIC SERVICES

Name Plate Information

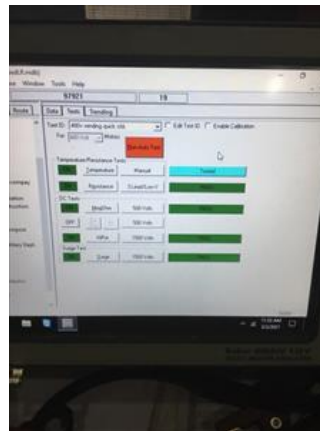


4. Manufacturer	U.S. MOTORS	P5
-----------------	-------------	----









Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.





5.	Model	
6.	Serial Number	ID# H007W12W293R097M
7.	Horsepower	75
8.	KW	
9.	Volts	460
10.	Amps	88.9
11.	RPM	3550
12.	Frame	364TS
13.	Enclosure	ODP
14.	Cycles	60
15.	Phase	3

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

16.	Service Factor	1.15
17.	Motor Mount Position	
Initial Inspection		
18.	Number of Leads	
19.	Lead Length	
20.	Lead Size	
21.	Lead Condition	
22.	Lead Markings	
23.	Lug Size, Condition, and Type	
24.	Winding RTD's	
25.	Winding Rtd's Condition	
26.	Shaft Run Out	
27.	Does Shaft Turn Freely	yes
28.	Does Shaft Have Visible Damage	no
29.	Bearing Rtd's	
30.	Bearing Rtd's Condition	
31.	Contamination Yes <i>Contaminated grease</i>	
	32. Frame Condition	(P) Pass P106
		
	33. Fan Condition	(NA) Not Applicable
	34. Broken or missing components	
Initial Electric Test		
35.	Resistance to Ground	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	(P) Pass

42. Stator Condition

good

P65



43. Failure Location

Initial Rotor Inspection

44. Rotor Type **squirrel cage**

45. Air Gap <10% Variation

46. Number of Rotor Bars

47. Number of Broken Rotor Bars

● 48. Growler Test **(P) Pass**

● 49. Rotor Condition **(P) Pass**

Mechanical Inspection

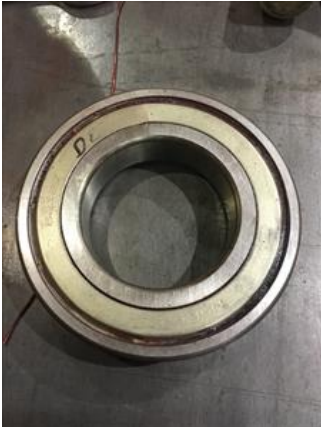


50. Bearing Manufacture **NSK**

51. Bearing DE Size **6212 2Z/C3**

52. Bearing DE Type **regular ball bearing**

P23



53. DE Bearing Qty. **1**

54. Bearing ODE Size **6212 2Z/C3**



56. ODE Bearing Qty.	1
57. Insulated Bearing	no
58. Lubrication Type	grease
59. Grease Condition	(F) Fail
Contaminated grease	
60. Bearing Retainers	(NA) Not Applicable
61. Shaft Grounding Device	(NA) Not Applicable
62. DE Seal	(NA) Not Applicable
63. DE Seal Type/Size	
64. ODE Seal	
65. ODE Seal Type/Size	

Root Cause of Failure

66. Component Failure	bearings
67. Cause of Failure	Grease contaminated
68. Comments	Customer request windings tested for electrical integrity. Windings check good. Both bearings failed due to contaminated grease.
69. Service Technician	Terrence Holland

Machine Fit Inspection Report

70. Shaft Run Out	(P) Pass
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 Final Shaft Bearing Fit Size 1	2.3623 "
78. DE Final Shaft Bearing Fit Size 2	2.3624 "
79. DE Final Shaft Bearing Fit Size 3	2.3624 "

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

80.	ODE Bearing Shaft Fit	(P) Pass
81.	ODE Initial Shaft Bearing Fit Size 1	2.3624 "
82.	ODE Initial Shaft Bearing Fit Size 2	2.3622 "
83.	ODE Initial Shaft Bearing Fit Size 3	2.3623 "
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
94.	DE Initial Endbell Fit Size 1	
95.	DE Initial Endbell Fit Size 2	
96.	DE Initial Endbell Fit Size 3	
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	(NA) Not Applicable
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	
106.	ODE Initial Endbell Fit Size 2	
107.	ODE Initial Endbell Fit Size 3	
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 Finial Endbell Seal Fit Size	
115.	Foot Flatness	(P) Pass
116.	Foot Condition	(P) Pass
117.	Flange Condition	(NA) Not Applicable
118.	Service Technician	Terrence Holland



Balancing Report





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

4000 Mohm

128. Surge Test

(P) Pass

129. Hi-Pot

Ua

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

0.04 In/Sec

140. DE Vertical Vibration Reading

0.07000000000000001 In/Sec

141. DE Axial Vibration Reading

0.05 In/Sec

142. ODE Horizontal Vibration Reading

0.02 In/Sec

143. ODE Vertical Vibration Reading

0.04 In/Sec

144. ODE Axial Vibration Reading

0.03 In/Sec

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

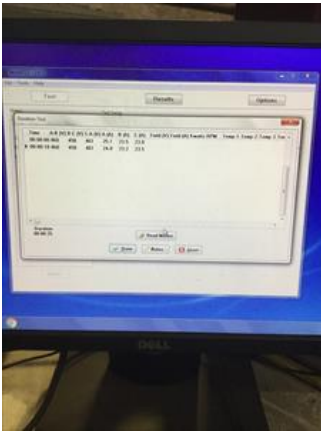
152. Temp at 35 minutes

153. Temp at 40 minutes

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

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	P136





159. Service Technician

Terrence Holland

Lawrence Hall