

# Motor Shop Repairs

## **Job Number 99440**

Prepared for ARKANSAS INDUSTRIAL MACHINERY

3804 N. NONA ST NORTH LITTLE ROCK AR 72118

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## **AC Recondition Repair Report**

**ARKANSAS INDUSTRIAL MACHINERY** 

3804 N. NONA ST NORTH LITTLE ROCK, AR 72118

Priorities Found: 4 - High

12 - Good

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99440 1. Job Number 2. Report Date 3/1/2022

Customer **Arkansas Industrial Machinery** 

#### **Name Plate Information**

Manufacturer **Siemens** 











































5.	Model	1CV2257B
6.	Serial Number	1PC30042CB700EB1
7.	Horsepower	
8.	KW	90
9.	Volts	380
10.	Amps	181
11.	RPM	2960
12.	Frame	250M
13.	Enclosure	TEFC
14.	Cycles	99

15.	Phase	3
16.	Service Factor	1.25
17.	Motor Mount Position	
Initial	Inspection	
18.	Number of Leads	6
19.	Lead Length	84 Inches
20.	Lead Size	
21.	Lead Condition	(P) Pass
22.	Lead Markings	1-1/2-2/3-3
23.	Lug Size, Condition, and Type	
24.	Winding RTD's	
25.	Winding Rtd's Condition	
26.	Shaft Run Out	
27.	Does Shaft Turn Freely	no
28.	Does Shaft Have Visible Damage	no
29.	Bearing Rtd's	
30.	Bearing Rtd's Condition	
31.	Contamination	
32.	Frame Condition	(P) Pass
33.	Fan Condition	(F) Fail

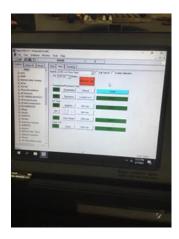


34. Broken or missing components

DE bearing cap is broke



Initia	Electric Test
35.	Resistance to Ground
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
- 43. Failure Location

#### **Initial Rotor Inspection**

44. Rotor Type squirrel cage laminate



45.	Air Gap <10% Variation	
46.	Number of Rotor Bars	
47.	Number of Broken Rotor Bars	0
<b>48</b> .	Growler Test	(P) Pass
<b>4</b> 9.	Rotor Condition	(P) Pass
Mecha	nical Inspection	
50.	Bearing Manufacture	FAG
51.	Bearing DE Size	6215
52.	Bearing DE Type	ball bearing
53.	DE Bearing Qty.	1



55. Bearing ODE Type	ceramic
56. ODE Bearing Qty.	1
57. Insulated Bearing	yes



58. Lubrication Type grease

■ 59. Grease Condition (F) Fail





60. Bearing Retainers(Y) Yes







61.	Shaft Grounding Device	
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	pearings, DE bearing fit for end bell and shaft
67.	Cause of Failure	
	Wear, mixing of grease on ODE, and lack of lubrication	

#### 68. Comments

Recommend reconditioning, machine work on DE bearing fit in the end bell, and either weld or replace shaft. Machined new shaft. See pictures





6	69.	Service Technician	
Ma	chi	ne Fit Inspection Report	
7	70.	Shaft Run Out	
7	71.	Initial Shaft Run Out	
7	72.	Final Shaft Run Out	
• 7	73.	DE Bearing Shaft Fit (F) Fail	
•		Inner race of bearing got hot and welded itself to the shaft	
7	74.	DE Initial Shaft Bearing Fit Size 1	
7	75.	DE Initial Shaft Bearing Fit Size 2	
7	76.	DE Initial Shaft Bearing Fit Size 3	
7	77.	DE Finial Shaft Bearing Fit Size 1	
7	78.	DE Finial Shaft Bearing Fit Size 2	
7	79.	DE Finial Shaft Bearing Fit Size 3	
• 6	30.	ODE Bearing Shaft Fit (P) Pass	
	30. 31.	ODE Bearing Shaft Fit ODE Initial Shaft Bearing Fit Size 1	
8		· ·	
8	31.	ODE Initial Shaft Bearing Fit Size 1	
8	31. 32. 33.	ODE Initial Shaft Bearing Fit Size 1 ODE Initial Shaft Bearing Fit Size 2	
8	81. 82. 83. 84.	ODE Initial Shaft Bearing Fit Size 1 ODE Initial Shaft Bearing Fit Size 2 ODE Initial Shaft Bearing Fit Size 3	
8 8	31. 32. 33. 34.	ODE Initial Shaft Bearing Fit Size 1 ODE Initial Shaft Bearing Fit Size 2 ODE Initial Shaft Bearing Fit Size 3 ODE Finial Shaft Bearing Fit Size 1	
£ £ £ £ £	31. 32. 33. 34.	ODE Initial Shaft Bearing Fit Size 1 ODE Initial Shaft Bearing Fit Size 2 ODE Initial Shaft Bearing Fit Size 3 ODE Finial Shaft Bearing Fit Size 1 ODE Finial Shaft Bearing Fit Size 2	
8 8 8 8 8	31. 32. 33. 34. 35.	ODE Initial Shaft Bearing Fit Size 1 ODE Initial Shaft Bearing Fit Size 2 ODE Initial Shaft Bearing Fit Size 3 ODE Finial Shaft Bearing Fit Size 1 ODE Finial Shaft Bearing Fit Size 2 ODE Finial Shaft Bearing Fit Size 2	
8 8 8 8 8 8	31. 32. 33. 34. 35. 36. 37.	ODE Initial Shaft Bearing Fit Size 1 ODE Initial Shaft Bearing Fit Size 2 ODE Initial Shaft Bearing Fit Size 3 ODE Finial Shaft Bearing Fit Size 1 ODE Finial Shaft Bearing Fit Size 2 ODE Finial Shaft Bearing Fit Size 3 DE Air Seal Shaft Fit	
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(F) Fail





 DE Initial Endbell Fit Size 2  DE Initial Endbell Fit Size 3	
DE Final Endbell Fit Size 1	5.1188 "



98. DE Finial Endbell Fit Size 2  99. DE Final Endbell Fit Size 3  5.1188 "  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 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			
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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	100	). DE Endbell Fit Insulated	
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112. ODE Endbell Air Seal Fit	110	). ODE Final Endbell Fit Size 3	
	111	. ODE Endbell Fit Insulated	
113. ODE Initial Endbell Seal Fit Size	112	2. ODE Endbell Air Seal Fit	
	113	B. 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	(P) Pass
118.	Service Technician	
Balanc	ring 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	
126.	Service Technician	
Assem	bly and Final Test	
127.	Meggar Testing Reading	
128.	Surge Test	(P) Pass
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	Amps





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	





















159. Service Technician Trevor Hall

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