



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

## AC Recondition Repair Report

FolderID: 98193  
FormID: 10600465

TRIANGLE ENGINEERING OF  
ARKANSAS  
1101 NORTH REDMOND ROAD  
JACKSONVILLE, AR 72076

Priorities Found: ● 14 - Good

### General

- |                |                      |
|----------------|----------------------|
| 1. Job Number  | 98193                |
| 2. Report Date | 05/10/2021           |
| 3. Customer    | TRIANGLE ENGINEERING |

### Name Plate Information

- |                 |             |
|-----------------|-------------|
| 4. Manufacturer | U.S. MOTORS |
|-----------------|-------------|

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5. Model	DC26
6. Serial Number	CAT# D30P3D
7. Horsepower	60
8. KW	
9. Volts	460
10. Amps	35
11. RPM	1185
12. Frame	326T
13. Enclosure	ODP
14. Cycles	60
15. Phase	3

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16.	Service Factor	1.15
17.	Motor Mount Position	
<b>Initial Inspection</b>		
18.	Number of Leads	12
19.	Lead Length	14 Inches
20.	Lead Size	
● 21.	Lead Condition	(P) Pass
22.	Lead Markings	1-12
23.	Lug Size, Condition, and Type	
24.	Winding RTD's	
25.	Winding Rtd's Condition	
26.	Shaft Run Out	
27.	Does Shaft Turn Freely	
28.	Does Shaft Have Visible Damage	no
29.	Bearing Rtd's	
30.	Bearing Rtd's Condition	
31.	Contamination	None
32.	Frame Condition	
● 33.	Fan Condition	(NA) Not Applicable
34.	Broken or missing components	
<b>Initial Electric Test</b>		
35.	Resistance to Ground	0.35 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	(NA) Not Applicable
42.	Stator Condition	pass
43.	Failure Location	
<b>Initial Rotor Inspection</b>		
44.	Rotor Type	laminated 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
<b>Mechanical Inspection</b>		
50.	Bearing Manufacture	skf

51. Bearing DE Size

6311 Z

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52. Bearing DE Type

regular ball bearing

53. DE Bearing Qty.

1

54. Bearing ODE Size

6211 2Z

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55. Bearing ODE Type

regular ball bearing

56. ODE Bearing Qty.

1

57. Insulated Bearing

0

58. Lubrication Type

grease

59. Grease Condition

(P) Pass

60. Bearing Retainers

(NA) Not Applicable

61. Shaft Grounding Device

(NA) Not Applicable

62. DE Seal

63. DE Seal Type/Size

64. ODE Seal

65. ODE Seal Type/Size

### Root Cause of Failure

66. Component Failure

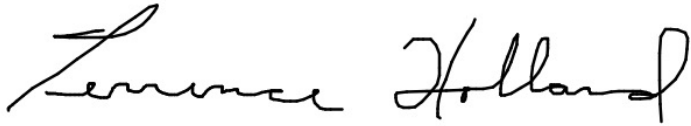
windings

67. Cause of Failure

*Washer embedded in windings on opposite drive end side of motor.*

68. Comments

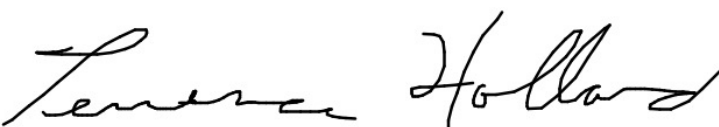
*The washer used to balance the rotor was not properly secured to the balancing peg. The washer dislodged from the rotor and became trapped in the windings causing a short circuit.*



### Machine Fit Inspection Report

70.	Shaft Run Out	(P) Pass
71.	Initial Shaft Run Out	0.001 "
72.	Final Shaft Run Out	
73.	DE Bearing Shaft Fit	(P) Pass
74.	DE Initial Shaft Bearing Fit Size 1	2.1656 "
75.	DE Initial Shaft Bearing Fit Size 2	2.1654 "
76.	DE Initial Shaft Bearing Fit Size 3	2.1655 "
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	2.1655 "
82.	ODE Initial Shaft Bearing Fit Size 2	2.1656 "
83.	ODE Initial Shaft Bearing Fit Size 3	2.1655 "
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	4.725 "
95.	DE Initial Endbell Fit Size 2	4.7252 "
96.	DE Initial Endbell Fit Size 3	4.7253 "
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	2.1657 "
106.	ODE Initial Endbell Fit Size 2	2.1658 "
107.	ODE Initial Endbell Fit Size 3	2.1658 "
108.	ODE Final Endbell Fit Size 1	
109.	ODE Final Endbell Fit Size 2	
110.	ODE Final Endbell Fit Size 3	

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111. ODE Endbell Fit Insulated	(NA) Not Applicable
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

- |                              |
|------------------------------|
| 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      |

### 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 |
| 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                |

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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