



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

## AC Recondition Repair Report

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

### General

1. Job Number	97726
2. Report Date	
3. Customer	3M

### Name Plate Information



4. Manufacturer	MARATHON	P5
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5. Model	<b>6K405TSTFS402AN-F2W</b>
6. Serial Number	<b>MB795580-9/13-03</b>
7. Horsepower	<b>100</b>
8. KW	
9. Volts	<b>230460</b>
10. Amps	
11. RPM	<b>1780</b>
12. Frame	<b>405TSC</b>
13. Enclosure	<b>TEFC</b>
14. Cycles	<b>60</b>
15. Phase	

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16.	Service Factor
17.	Motor Mount Position
<b>Initial Inspection</b>	
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
28.	Does Shaft Have Visible Damage
29.	Bearing Rtd's
30.	Bearing Rtd's Condition
31.	Contamination
32.	Frame Condition
33.	Fan Condition
34.	Broken or missing components
<b>Initial Electric Test</b>	
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
42.	Stator Condition
43.	Failure Location
<b>Initial Rotor Inspection</b>	
44.	Rotor Type
45.	Air Gap <10% Variation
46.	Number of Rotor Bars
47.	Number of Broken Rotor Bars
48.	Growler Test
49.	Rotor Condition
<b>Mechanical Inspection</b>	
50.	Bearing Manufacture
51.	Bearing DE Size
52.	Bearing DE Type
53.	DE Bearing Qty.
54.	Bearing ODE Size
55.	Bearing ODE Type
56.	ODE Bearing Qty.
57.	Insulated Bearing
58.	Lubrication Type
59.	Grease Condition

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60.	Bearing Retainers	
61.	Shaft Grounding Device	
62.	DE Seal	
63.	DE Seal Type/Size	
64.	ODE Seal	
65.	ODE Seal Type/Size	
<b>Root Cause of Failure</b>		
66.	Component Failure	leads
67.	Cause of Failure	
	<i>Customer request changing leads from 3 to 6 leads</i>	
68.	Comments	
69.	Service Technician	Terrence Holland
		
<b>Machine Fit Inspection Report</b>		
70.	Shaft Run Out	
71.	Initial Shaft Run Out	
72.	Final Shaft Run Out	
73.	DE Bearing Shaft Fit	
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	
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	
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	

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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
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
116.	Foot Condition
117.	Flange Condition
118.	Service Technician
<b>Balancing Report</b>	
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
<b>Assembly and Final Test</b>	
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
159. Service Technician