

# Motor Shop Repairs

# Job Number 99040

Prepared for Reynolds Metals company

1333 highway 270 Malvern AR 72104

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**AC Recondition Repair Report** 

7030 Ryburn Dr Millington, Tn 38053 901-873-5300

Hi-Speed Industrial Service

FolderID: 99040 FormID: 12233865

**Reynolds Metals company** 1333 highway 270

Malvern, AR 72104

Priorities Found: 16 - Good

1 Hornio	Thomas Found. 10 Cook		
General			
1.	Job Number	99040	
2.	Report Date	11/30/2021	
3.	Customer	Reynolds Consumer Products	
Name	Plate Information		

ABB Manufacturer



















5.	Model
6.	Serial Number
7.	Horsepower
8.	KW
9.	Volts
10.	Amps
11.	RPM
12.	Frame
13.	Enclosure
1/	Cycles

- 15. Phase
- 16. Service Factor
- 17. Motor Mount Position

## **Initial Inspection**

18. Number of Leads 6



19.	Lead Length	6 Inches
20.	Lead Size	10
21.	Lead Condition	(P) Pass



22.	Lead Markings	U1 V1 W1 U2 V2 W2
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	(NA) Not Applicable
<ul><li>30.</li></ul>	Bearing Rtd's Condition	(NA) Not Applicable
31.	Contamination	
32.	Frame Condition	(NA) Not Applicable
-	Frame has one broken lifting eye	
<ul><li>33.</li></ul>	Fan Condition	(NA) Not Applicable
-	Fan # 3GZV304014-6	





34.	Broken or missing components	
Initial	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	
<b>4</b> 1.	Surge Test (NA) Not Appli	cable
42.	Stator Condition rev	wind





#### 43. Failure Location



# **Initial Rotor Inspection**

44. Rotor Type cast aluminum



45.	Air Gap <10% Variation	
46.	Number of Rotor Bars	
47.	Number of Broken Rotor Bars	0
48.	Growler Test	(P) Pass
49.	Rotor Condition	(P) Pass



# **Mechanical Inspection**



51. Bearing DE Size





52. Bearing DE Type	BALL BEARING
53. DE Bearing Qty.	1
54. Bearing ODE Size	6209ZZ





Metal fatigue

55.	Bearing ODE Type	Ball bearing
56.	ODE Bearing Qty.	1
57.	Insulated Bearing	no
58.	Lubrication Type	grease
<b>9</b> 59.	Grease Condition	(NA) Not Applicable



60.	Bearing Retainers	(Y) Yes
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	
67.	Cause of Failure	
68.	Comments	
69.	Service Technician	
Mach	ne Fit Inspection Report	
70.	Shaft Run Out	
71.	Initial Shaft Run Out	
72.	Final Shaft Run Out	
73.	DE Bearing Shaft Fit	(NA) Not Applicable



74. DE Initial Shaft Bearing Fit Size 1	1.9683 "
75. DE Initial Shaft Bearing Fit Size 2	1.9683 "
76. DE Initial Shaft Bearing Fit Size 3	1.9683 "
77. DE Finial Shaft Bearing Fit Size 1	
78. DE Finial Shaft Bearing Fit Size 2	
79. DE Finial Shaft Bearing Fit Size 3	



81.	ODE Initial Shaft Bearing Fit Size 1	1.7215 "
82.	ODE Initial Shaft Bearing Fit Size 2	1.7215 "
83.	ODE Initial Shaft Bearing Fit Size 3	1.7215 "
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	4.3309 "
95. DE Initial Endbell Fit Size 2	4.3309 "
96. DE Initial Endbell Fit Size 3	4.3309 "
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 (NA) Not Applicable



105.	ODE Initial Endbell Fit Size 1	3.3482 "
106.	ODE Initial Endbell Fit Size 2	3.3482 "
107.	ODE Initial Endbell Fit Size 3	3.3482 "
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	(Y) Yes
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	(P) Pass
<b>117</b> .	Flange Condition (NA	) Not Applicable
118.	Service Technician	RW

### **Balancing Report**

440	Delenes Tones	
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
	Winding Resistance 2-3
	Winding Resistance 1-3
	Test Run Voltage Phase A
	Test Run Amps A
	Test Run Voltage Phase B
	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

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