



**KEEPING YOUR FACILITY UP TO SPEED**  
— EVERY DAY SINCE 1946 —

Motor Shop Repairs

**Job Number 97918**

Prepared for Powers Mechanical Services

5440 Northshore Drive  
North Little Rock AR 72118

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AC Recondition Repair Report

1.0

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

## AC Recondition Repair Report

FolderID: 97918  
FormID: 10129638

**Powers Mechanical Services**  
5440 Northshore Drive  
North Little Rock, AR 72118

*Performed By: Motor Shop LR 2*  
*Date Completed: 3/10/2021*

Priorities Found: ● 1 - High ● 14 - Good

### General

1. Job Number	97918
2. Report Date	
3. Customer	POWERS MECHANICAL SERVICE

### Name Plate Information

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#### 4. Manufacturer

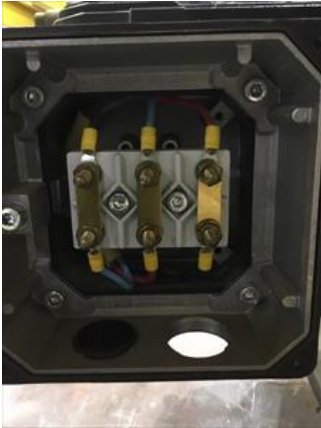
**WEISHAUPT**



5. Model	<b>W-D160/240-2/22KO</b>
6. Serial Number	<b>4877574</b>
7. Horsepower	<b>20 HP</b>
8. KW	
9. Volts	<b>440 Volts</b>
10. Amps	<b>33 Amps</b>
11. RPM	<b>3550 RPM</b>
12. Frame	<b>W-D160</b>
13. Enclosure	<b>TEFC</b>

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14. Cycles	60 HZ
15. Phase	3 PH
16. Service Factor	
17. Motor Mount Position	
<b>Initial Inspection</b>	
18. Number of Leads	6



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	
29. Bearing Rtd's	(NA) Not Applicable
30. Bearing Rtd's Condition	
31. Contamination	
32. Frame Condition	(P) Pass
33. Fan Condition	(P) Pass



34. Broken or missing components	
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### Initial Electric Test

35. Resistance to Ground	101236 Mohm
36. Winding Resistance 1-2	0.175 Ohm
37. Winding Resistance 2-3	0.169 Ohm's
38. Winding Resistance 1-3	0.168 Ohm's
39. Resistive Imbalance	
40. Hi-Pot	
41. Surge Test	(P) Pass
42. Stator Condition	



43. Failure Location

### Initial Rotor Inspection

44. Rotor Type **cast aluminum**



45. Air Gap <10% Variation	
46. Number of Rotor Bars	30
47. Number of Broken Rotor Bars	0
48. Growler Test	(P) Pass

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**Mechanical Inspection**

50. Bearing Manufacture	NTN
51. Bearing DE Size	6209ZZ
52. Bearing DE Type	ball
53. DE Bearing Qty.	1



54. Bearing ODE Size	6209ZZ
55. Bearing ODE Type	ball
56. ODE Bearing Qty.	1





57. Insulated Bearing	no
58. Lubrication Type	grease
59. Grease Condition	(NA) Not Applicable
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	(NA) Not Applicable
65. ODE Seal Type/Size	
<b>Root Cause of Failure</b>	
66. Component Failure	
67. Cause of Failure	
68. Comments	
69. Service Technician	
<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	(P) Pass



74. DE Initial Shaft Bearing Fit Size 1	1.7718 "
75. DE Initial Shaft Bearing Fit Size 2	1.7718 "
76. DE Initial Shaft Bearing Fit Size 3	1.7718 "
77. DE Finial Shaft Bearing Fit Size 1	
78. DE Finial Shaft Bearing Fit Size 2	
79. DE Finial Shaft Bearing Fit Size 3	

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80. ODE Bearing Shaft Fit

(P) Pass



81. ODE Initial Shaft Bearing Fit Size 1	1.7722 "
82. ODE Initial Shaft Bearing Fit Size 2	1.772 "
83. ODE Initial Shaft Bearing Fit Size 3	1.772 "
84. ODE Final Shaft Bearing Fit Size 1	
85. ODE Final Shaft Bearing Fit Size 2	
86. ODE Final 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	3.3474 "
95. DE Initial Endbell Fit Size 2	3.3474 "
96. DE Initial Endbell Fit Size 3	3.3474 "
97. DE Final Endbell Fit Size 1	
98. DE Final 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	

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102. Initial Endbell Air Seal Fit Size	
103. Final Endbell Air Seal Fit Size	
● 104. ODE Endbell Fit	<b>(F) Fail</b>



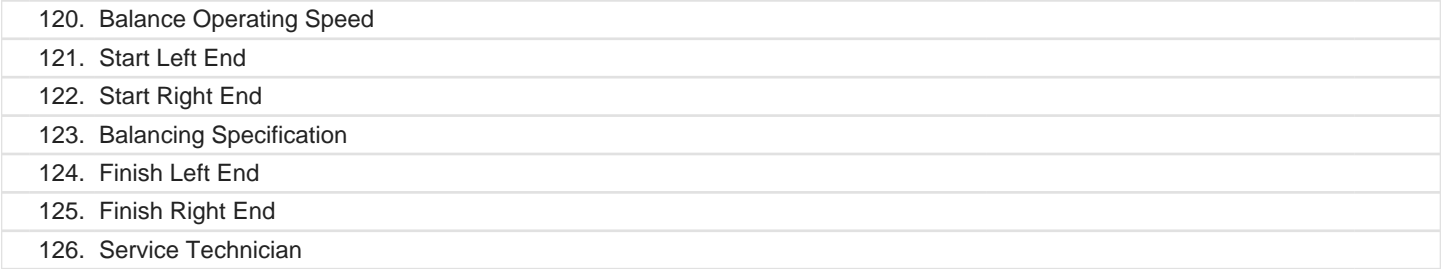
105. ODE Initial Endbell Fit Size 1	<b>3.3487 "</b>
106. ODE Initial Endbell Fit Size 2	<b>3.3487 "</b>
107. ODE Initial Endbell Fit Size 3	<b>3.3452 "</b>
108. ODE Final Endbell Fit Size 1	
109. ODE Final Endbell Fit Size 2	
110. ODE Final Endbell Fit Size 3	
111. ODE Endbell Fit Insulated	<b>(NA) Not Applicable</b>
112. ODE Endbell Air Seal Fit	
113. ODE Initial Endbell Seal Fit Size	
114. ODE Final Endbell Seal Fit Size	
● 115. Foot Flatness	<b>(NA) Not Applicable</b>
● 116. Foot Condition	<b>(NA) Not Applicable</b>
● 117. Flange Condition	<b>(P) Pass</b>



118. Service Technician	<b>RW</b>
<b>Balancing Report</b>	

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119. Balance Type



## Assembly and Final Test

127. Meggar Testing Reading	112.9 Mohm
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127. Meggar Testing Reading	112.9 Mohm
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133. Test Run Voltage Phase A

440 Volts



134. Test Run Amps A

11.1 Amps

135. Test Run Voltage Phase B

439 Volts



136. Test Run Amps B

10.5 Amps

137. Test Run Voltage Phase C

442 Volts



138. Test Run Amps C

10.2 Amps

139. DE Horizontal Vibration Reading

140. DE Vertical Vibration Reading

141. DE Axial Vibration Reading

142. ODE Horizontal Vibration Reading

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8. **WARRANTIES.** Hi-Speed warrants that all goods shall conform in all material aspects to the goods identified in the quotation to Buyer and/or purchase order, and Hi-Speed makes to Buyer the manufacturer's express warranty for any goods sold to Buyer, which is offered by the manufacturer at the time of acceptance of any quotation by Buyer. This warranty is conditioned upon the installation, operation, and maintenance of the goods in accordance with the manufacturer's recommendations and/or standard industry practice and the goods at all times being operated or used under normal operating conditions for which they were designed. Hi-Speed, at its sole option, will repair or



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13. **FORCE MAJEURE.** Neither party shall be responsible for any delay or failure in performance of any party of the quotation, purchase order or these Standard Terms and Conditions to the extent that such delays or failures are caused by fire, flood, earthquake, explosion, war, embargo, government requirement, civil or military authority, acts of God, or any other circumstances beyond its reasonable control and not involving any fault or negligence on the party affected ("Condition"). If any such Condition occurs, the party delayed or unable to perform shall promptly give written notice to the other party and, if such Condition remains at the end of thirty (30) days, the party affected by the other party's delay and inability to perform may elect to (i) terminate such order or part thereof, or (ii) suspend the order for the duration of the Condition, if the Buyer is the suspending party, buy elsewhere comparable material to be sold under the order and apply to any commitment the purchase price of such purchase, and resume performance of the order once the Condition ceases, with an option in the affected party to extend the period of this order up to the length of the time the Condition endures.
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