

EVERY DAY SINCE 1946

Motor Shop Repairs

Job Number 99446

Prepared for Menifee Municipal Waterworks

PO Box 38 Menifee AR 72107

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AC Recondition Repair Report



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

AC Recondition Repair Report

Menifee Municipal Waterworks

PO Box 38 Menifee, AR 72107

Priorities Found:	📄 6 - High	🔵 11 - Good
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General

- 1. Job Number
- 2. Report Date
- 3. Customer
- Name Plate Information
 - 4. Manufacturer









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Reliance

99446

3/2/2022

Menifee Municipal Waterworks











5.	Model	P18G3860A
6.	Serial Number	32GP18386001 G 1 HD
7.	Horsepower	7.5
8.	KW	
9.	Volts	460
10.	Amps	9.5
11.	RPM	3475
12.	Frame	180TY
13.	Enclosure	TEFC
14.	Cycles	60

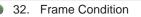
15.	Phase	3
16.	Service Factor	1.15
17.	Motor Mount Position	
Initial	Inspection	
18.	Number of Leads	9
19.	Lead Length	6 Inches
20.	Lead Size	
21.	Lead Condition	(P) Pass



22. Lead Markings	
23. Lug Size, Condition, and Type	
24. Winding RTD's	
25. Winding Rtd's Condition	
26. Shaft Run Out	0.001
27. Does Shaft Turn Freely	yes
28. Does Shaft Have Visible Damage	no
29. Bearing Rtd's	
30. Bearing Rtd's Condition	
31. Contamination	

Old grease





(P) Pass



33. Fan Condition

(P) Pass



34.	Broken or missing components	
Initial	Electric Test	
35.	Resistance to Ground	5000 Mohm
36.	Winding Resistance 1-2	18 Ohm
37.	Winding Resistance 2-3	24 Ohm's
38.	Winding Resistance 1-3	6 Ohm's
39.	Resistive Imbalance	
40.	Hi-Pot	



42. Stator Condition	rewind
43. Failure Location	in slot
Initial Rotor Inspection	
44. Rotor Type	cast aluminum

44. Rotor Type



45. Air Gap <10% Variation		
46. Number of Rotor Bars	32	
47. Number of Broken Rotor Bars	0	
48. Growler Test	(P) Pass	
49. Rotor Condition	(P) Pass	
Mechanical Inspection		



51. Bearing DE Size

6206 c3



52. Bearing DE Type	ball	
53. DE Bearing Qty.	1	
54. Bearing ODE Size	6205 c3	



55	. Bearing ODE Type	ball
56	. ODE Bearing Qty.	1
57	. Insulated Bearing	no
58	. Lubrication Type	grease
• 59	. Grease Condition	(F) Fail



60. Bearing Retainers



61.	Shaft Grounding Device	(N) No
62.	DE Seal	
63.	DE Seal Type/Size	
64.	ODE Seal	
65.	ODE Seal Type/Size	
Root	Cause of Failure	
66.	Component Failure	bearings, grease, windings, endbell,
	Bearings have frosting	
67.	Cause of Failure	
	Hardened grease and shorted windings	
68.	Comments	
69.	Service Technician	Trevor Hall
Machi	ne Fit Inspection Report	

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(Y) Yes



72. Final Shaft Run Out (P) I 73. DE Bearing Shaft Fit (P) I 74. DE Initial Shaft Bearing Fit Size 1 1.16 75. DE Initial Shaft Bearing Fit Size 2 1.16 76. DE Initial Shaft Bearing Fit Size 3 1.16 77. DE Finial Shaft Bearing Fit Size 1 1.16 77. DE Finial Shaft Bearing Fit Size 2 1.16 77. DE Finial Shaft Bearing Fit Size 2 1.16 77. DE Finial Shaft Bearing Fit Size 3 0.116 77. DE Finial Shaft Bearing Fit Size 3 0.96 80. ODE Bearing Shaft Fit (P) I 81. ODE Initial Shaft Bearing Fit Size 2 0.96 82. ODE Initial Shaft Bearing Fit Size 3 0.96 83. ODE Initial Shaft Bearing Fit Size 3 0.96 84. ODE Finial Shaft Bearing Fit Size 1 0.96 85. ODE Finial Shaft Bearing Fit Size 3 0.96 86. ODE Finial Shaft Bearing Fit Size 3 0.96 87. DE Air Seal Shaft Fit 1.16 88. DE Initial Air Seal Shaft Size 9. 90. ODE Air Seal Shaft Size 9. 91. ODE Initial Air Seal Shaft Size 9. 92. ODE Initial Air Seal Shaft Size 9. 93. ODE Air Seal Shaft Size			
 73. DE Bearing Shaft Fit (P) I 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 (P) I 81. ODE Initial Shaft Bearing Fit Size 2 0.92 83. ODE Initial Shaft Bearing Fit Size 3 84. ODE Finial Shaft Bearing Fit Size 3 85. 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 90. ODE Air Seal Shaft Size 91. ODE Initial Air Seal Shaft Size 91. ODE Initial Air Seal Shaft Size 	71.	Initial Shaft Run Out	0.001 "
74. DE Initial Shaft Bearing Fit Size 11.1875. DE Initial Shaft Bearing Fit Size 21.1876. DE Initial Shaft Bearing Fit Size 31.1877. DE Finial Shaft Bearing Fit Size 11.1878. DE Finial Shaft Bearing Fit Size 27979. DE Finial Shaft Bearing Fit Size 3(P) I80. ODE Bearing Shaft Fit(P) I81. ODE Initial Shaft Bearing Fit Size 10.9882. ODE Initial Shaft Bearing Fit Size 20.9683. ODE Initial Shaft Bearing Fit Size 30.9884. ODE Finial Shaft Bearing Fit Size 10.9885. ODE Finial Shaft Bearing Fit Size 20.9686. ODE Finial Shaft Bearing Fit Size 30.9887. DE Air Seal Shaft Fit8888. DE Initial Air Seal Shaft Size9090. ODE Air Seal Shaft Size9091. ODE Initial Air Seal Shaft Size9191. ODE Initial Air Seal Shaft Size91	72.	Final Shaft Run Out	
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76. DE Initial Shaft Bearing Fit Size 3 1.18 77. DE Finial Shaft Bearing Fit Size 1 78 78. DE Finial Shaft Bearing Fit Size 2 79 79. DE Finial Shaft Bearing Fit Size 3 (P) I 80. ODE Bearing Shaft Fit (P) I 81. ODE Initial Shaft Bearing Fit Size 1 0.98 82. ODE Initial Shaft Bearing Fit Size 2 0.98 83. ODE Initial Shaft Bearing Fit Size 3 0.98 84. ODE Finial Shaft Bearing Fit Size 1 0.98 85. ODE Finial Shaft Bearing Fit Size 2 0.98 86. ODE Finial Shaft Bearing Fit Size 3 0.98 87. DE Air Seal Shaft Fit 88 88. DE Initial Air Seal Shaft Size 89 90. ODE Air Seal Shaft Size 90 91. ODE Initial Air Seal Shaft Size 91 91. ODE Initial Air Seal Shaft Size 91 92. ODE Air Seal Shaft Size 91 93. ODE Initial Air Seal Shaft Size 91 94. ODE Initial Air Seal Shaft Size 91	74.	DE Initial Shaft Bearing Fit Size 1	1.1814 "
 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) I 81. ODE Initial Shaft Bearing Fit Size 1 0.98 82. ODE Initial Shaft Bearing Fit Size 2 0.98 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 Size 	75.	DE Initial Shaft Bearing Fit Size 2	1.1814 "
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81. ODE Initial Shaft Bearing Fit Size 10.9882. ODE Initial Shaft Bearing Fit Size 20.9883. ODE Initial Shaft Bearing Fit Size 30.9884. ODE Finial Shaft Bearing Fit Size 10.9885. ODE Finial Shaft Bearing Fit Size 20.9886. ODE Finial Shaft Bearing Fit Size 30.9887. DE Air Seal Shaft Fit0.9888. DE Initial Air Seal Shaft Size0.9990. ODE Air Seal Shaft Size0.9191. ODE Initial Air Seal Shaft Size0.92	79.	DE Finial Shaft Bearing Fit Size 3	
82. ODE Initial Shaft Bearing Fit Size 20.9883. ODE Initial Shaft Bearing Fit Size 30.9884. ODE Finial Shaft Bearing Fit Size 10.9885. ODE Finial Shaft Bearing Fit Size 20.9886. ODE Finial Shaft Bearing Fit Size 30.9887. DE Air Seal Shaft Bearing Fit Size 30.9889. DE Initial Air Seal Shaft Size0.9990. ODE Air Seal Shaft Fit0.9091. ODE Initial Air Seal Shaft Size0.91	80.	ODE Bearing Shaft Fit	(P) Pass
83. ODE Initial Shaft Bearing Fit Size 3 0.98 84. ODE Finial Shaft Bearing Fit Size 1 0.98 85. ODE Finial Shaft Bearing Fit Size 2 0.98 86. ODE Finial Shaft Bearing Fit Size 3 0.98 87. DE Air Seal Shaft Bearing Fit Size 3 0.98 90. DE Finial Air Seal Shaft Size 0.99 90. ODE Air Seal Shaft Fit 0.99 91. ODE Initial Air Seal Shaft Size 0.99	81.	ODE Initial Shaft Bearing Fit Size 1	0.9847 "
 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 	82.	ODE Initial Shaft Bearing Fit Size 2	0.9847 "
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 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 	86.	ODE Finial Shaft Bearing Fit Size 3	
 89. DE Final Air Seal Shaft Size 90. ODE Air Seal Shaft Fit 91. ODE Initial Air Seal Shaft Size 	87.	DE Air Seal Shaft Fit	
90. ODE Air Seal Shaft Fit 91. ODE Initial Air Seal Shaft Size	88.	DE Initial Air Seal Shaft Size	
91. ODE 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 FINALAIS Seal Shalt Size	92.	ODE Final Air Seal Shaft Size	
 93. DE Endbell Fit (P) I 	93.	DE Endbell Fit	(P) Pass



94.	DE Initial Endbell Fit Size 1	2.4413 "
95.	DE Initial Endbell Fit Size 2	2.4413 "
96.	DE Initial Endbell Fit Size 3	2.4413 "
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	(N) No



101	. DE Endbell Air Seal Fit	
102	. Initial Endbell Air Seal Fit Size	
103	. Finial Endbell Air Seal Fit Size	
• 104	. ODE Endbell Fit	(F) Fail
-	Pitted	
105	. ODE Initial Endbell Fit Size 1	2.0484 "
106	. ODE Initial Endbell Fit Size 2	2.0484 "
107	. ODE Initial Endbell Fit Size 3	2.0484 "
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	(N) No
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

(P) Pass

Trevor Hall

7-7M

Baland	ing 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	ibly 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
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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TermsAndConditions

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- 11. <u>GOVERNING LAW AND JURISDICTION.</u> Any controversy arising out of any quotation, the purchase order, the goods sold or delivered, repair or replacement thereof, or any services provided pursuant to any quotation or any purchase order, or these Standard Terms and Conditions shall be governed by the laws of the state of Tennessee without regard to any choice of law provisions and any cause of action related in any manner thereto shall be brought only in the state or federal courts of Shelby County, Tennessee.
- 12. <u>ABANDONED EQUIPMENT.</u> Hi-Speed requires that Buyer promptly pick up or provide shipment instructions for Buyer equipment or other Buyer property in Hi-Speed's possession. If equipment or other Buyer property is left with Hi-Speed and not picked up within six (6) months after Hi-Speed's final action related to the applicable property (e.g. evaluation, teardown, estimate, completion of services), Hi-Speed will consider such property abandoned and may dispose of it in accordance with applicable law. Buyer agrees to hold Hi-Speed harmless for any damage or claim for such abandoned property and acknowledges that Hi-Speed may discard or recycle it at Hi-Speed's sole and absolute discretion. Specifically, Hi-Speed may sell Buyer's abandoned property at a private or public sale and retain the proceeds to offset Hi-Speed's storage, inspection and servicing costs. For the avoidance of doubt, Hi-Speed reserves its statutory and other lawful liens for unpaid charges related to abandoned property.
- 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, earth quake, 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.
- 14. <u>NONWAIVER</u>. No course of dealing or failure of either party to strictly enforce any term, right, or condition of these Standard Terms and Conditions will be construed as a waiver of such term, right or condition. Any waiver by Hi-Speed will only be in writing and will waive no succeeding breach of a term, right or condition.
- 15. <u>ASSIGNMENT.</u> The rights and obligations of the parties shall neither be assigned nor delegated without the prior written consent of the other party. However, any party may assign or delegate its respective rights and obligations, in whole or in part, (i) to any subsidiary, (ii) pursuant to other financing, merger or reorganization or (iii) pursuant to any sale or transfer of substantially all of the assets of the assigning party. These Standard Terms and Conditions shall bind the heirs, successors and assigns of the parties hereto.
- 16. <u>NO INDIVIDUAL LIABILITY</u>. Notwithstanding any other agreement to the contrary, the Buyer agrees that in no event will the Buyer hold and HI-Speed owner, director, officer or employee personally liable for unintentional tortious conduct or conduct that constitutes the breach of any contract between HI-Speed and the Buyer, even if the HI-Speed owner, director, officer or employee is or could be construed to be a party to such contract.