



## AC Recondition Repair Report

FolderID: 98550  
FormID: 11269981

MAPLE CREEK SEWER  
IMPROVEMENT DISTRICT #1  
P.O. BOX 73  
MABELVALE, AR 72103

Priorities Found: ● 1 - High ● 16 - Good

### General

1. Job Number	98550
2. Report Date	08/03/2021
3. Customer	12291

### Name Plate Information



4. Manufacturer	BARNES	P5
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







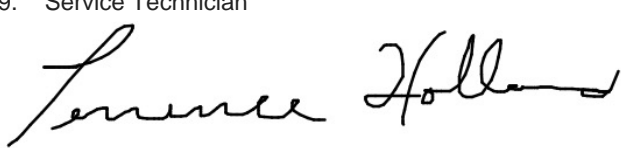


5. Model	4SE7544L
6. Serial Number	C1857402
7. Horsepower	7.5
8. KW	
9. Volts	460
10. Amps	
11. RPM	1750
12. Frame	
13. Enclosure	
14. Cycles	
15. Phase	3
16. Service Factor	1.15
17. Motor Mount Position	
<b>Initial Inspection</b>	
18. Number of Leads	9
19. Lead Length	
20. Lead Size	
21. Lead Condition	(P) Pass
22. Lead Markings	T1-T9
23. Lug Size, Condition, and Type	
24. Winding RTD's	
25. Winding Rtd's Condition	
26. Shaft Run Out	

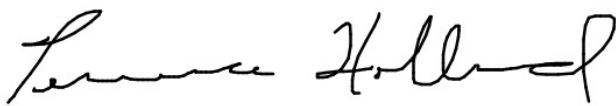
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27.	Does Shaft Turn Freely	yes	
28.	Does Shaft Have Visible Damage	no	
29.	Bearing Rtd's		
30.	Bearing Rtd's Condition		
31.	Contamination Yes		
32.	Frame Condition	(P) Pass	
33.	Fan Condition	(NA) Not Applicable	
34.	Broken or missing components		
<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	(F) Fail	
42.	Stator Condition	windings blown	P65
			
43.	Failure Location	coil to coil	
<b>Initial Rotor Inspection</b>			
44.	Rotor Type	squirrel cage laminate	P4
			
45.	Air Gap <10% Variation		
46.	Number of Rotor Bars	45	

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47.	Number of Broken Rotor Bars	0
● 48.	Growler Test	(P) Pass
● 49.	Rotor Condition	(P) Pass
<b>Mechanical Inspection</b>		
50.	Bearing Manufacture	NSK
51.	Bearing DE Size	5307 C3
52.	Bearing DE Type	dbl wide
53.	DE Bearing Qty.	1
54.	Bearing ODE Size	6205
55.	Bearing ODE Type	regular ball bearing
56.	ODE Bearing Qty.	1
57.	Insulated Bearing	no
58.	Lubrication Type	oil
● 59.	Grease Condition	(NA) Not Applicable
60.	Bearing Retainers	(NA) Not Applicable
61.	Shaft Grounding Device	(NA) Not Applicable
● 62.	DE Seal	(Y) Yes
63.	DE Seal Type/Size	shaft seal seat 1.250/seal seat o.d.- 1.8820
● 64.	ODE Seal	(Y) Yes
65.	ODE Seal Type/Size	shaft seal surface is 1.250/seal O.D 1.8820
<b>Root Cause of Failure</b>		
66.	Component Failure	seal failure
67.	Cause of Failure	<i>Seal failure allowed water to enter into stator windings causing the two short circuit.</i>
68.	Comments	<i>Rewind stator, replace all seals and o rings, replace bladder.</i>
69.	Service Technician	Terrence. Holland
		
<b>Machine Fit Inspection Report</b>		
● 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	1.3784 "
75.	DE Initial Shaft Bearing Fit Size 2	1.3784 "
76.	DE Initial Shaft Bearing Fit Size 3	1.3782 "
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	0.9848 "
82.	ODE Initial Shaft Bearing Fit Size 2	0.9848 "

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83.	ODE Initial Shaft Bearing Fit Size 3	0.9848 "
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	3.1498 "
95.	DE Initial Endbell Fit Size 2	3.1501 "
96.	DE Initial Endbell Fit Size 3	3.15 "
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	(NA) Not Applicable
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	2.0479 "
106.	ODE Initial Endbell Fit Size 2	2.0478 "
107.	ODE Initial Endbell Fit Size 3	2.0478 "
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	(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	(P) Pass
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

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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
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