

Motor Shop Repairs

EVERY DAY SINCE 1946

Job Number 98668

Prepared for 3M-Main Plant (10001)

310 Walter Road Little Rock AR 72216

Table of Contents



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FolderID: 98668

FormID: 11492038



AC Recondition Repair Report

3M-Main Plant (10001)

310 Walter Road Little Rock, AR 72216

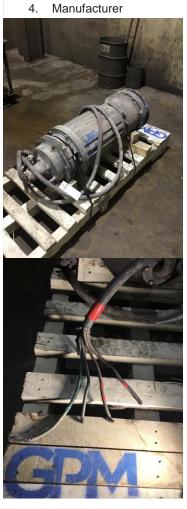
Priorities Found: 6 5 - High

13 - Good

Gene	ral		
1.	Job Number	98668	
2.	Report Date	9/1/2021	
3.	Customer	3M	

Name Plate Information

Eliminator





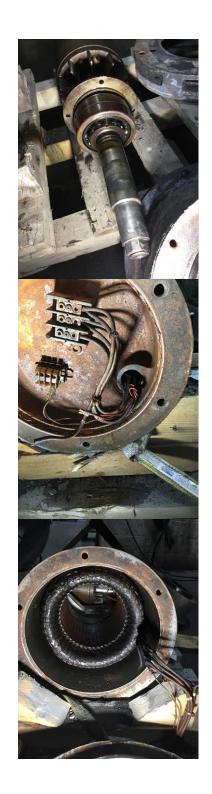
















5.	Model	SBLH40-4T4
6.	Serial Number	0825
7.	Horsepower	40
8.	KW	30
9.	Volts	460
10.	Amps	52
11.	RPM	
-	280 GPM 116 Feet	
12.	Frame	
13.	Enclosure	Submersible Pump
14.	Cycles	60
15.	Phase	3
16.	Service Factor	
17.	Motor Mount Position	
Initial	Inspection	
18.	Number of Leads	9
19.	Lead Length	Inches
20.	Lead Size	
2 1.	Lead Condition	(F) Fail
22.	Lead Markings	
23.	Lug Size, Condition, and Type	

24.	Winding RTD's	
25.	Winding Rtd's Condition	
26.	Shaft Run Out	0.005
27.	Does Shaft Turn Freely	yes
28.	Does Shaft Have Visible Damage	seal surfaces
29.	Bearing Rtd's	
30.	Bearing Rtd's Condition	
31.	Contamination	
	Water	
32.	Frame Condition	(P) Pass
33.	Fan Condition	(NA) Not Applicable
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	
41.	Surge Test	(F) Fail
42.	Stator Condition	pass
43.	Failure Location	
Initial	Rotor Inspection	
44.	Rotor Type	squirrel cage laminate
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
Mech	anical Inspection	
50.	Bearing Manufacture	koyo
51.	Bearing DE Size	7314B
52.	Bearing DE Type	thrust



53. DE Bearing Qty.







100			
	56.	ODE Bearing Qty.	1
	57.	Insulated Bearing	no
	58.	Lubrication Type	oil/grease
	59.	Grease Condition	(F) Fail
	-	Water contaminated	
	60.	Bearing Retainers	(Y) Yes
	61.	Shaft Grounding Device	(NA) Not Applicable
	62.	DE Seal	(Y) Yes



63. DE Seal Type/Size double sided proprietary seal

64. ODE Seal
 (Y) Yes



65. ODE Seal Type/Size

Root Cause of Failure

66. Component Failure seals

67. Cause of Failure

Seals failed due to shaft seal surface being worn

68. Comments

Re-sleeve upper & lower housings. Rewind stator. All seal surfaces bad. Upper shaft bearing journal bad. Replace power cord (4c-4AWG, 21' long). Shaft is bent .005

69. Service Technician Terrence. Holland

Lem Holland

Machine Fit Inspection Report			
70.	Shaft Run Out		
71.	Initial Shaft Run Out	0.005 "	
72.	Final Shaft Run Out		
73.	DE Bearing Shaft Fit		
74.	DE Initial Shaft Bearing Fit Size 1	2.7567 "	
75.	DE Initial Shaft Bearing Fit Size 2	2.7566 "	
76.	DE Initial Shaft Bearing Fit Size 3	2.7565 "	
77.	DE Finial Shaft Bearing Fit Size 1		
78.	DE Finial Shaft Bearing Fit Size 2		
79.	DE Finial Shaft Bearing Fit Size 3		
8 0.	ODE Bearing Shaft Fit	(P) Pass	
80.81.	•	(P) Pass 1.7717 "	
	ODE Initial Shaft Bearing Fit Size 1	,	
81.	ODE Initial Shaft Bearing Fit Size 1 ODE Initial Shaft Bearing Fit Size 2	,	
81. 82.	ODE Initial Shaft Bearing Fit Size 1 ODE Initial Shaft Bearing Fit Size 2 ODE Initial Shaft Bearing Fit Size 3	,	
81. 82. 83.	ODE Initial Shaft Bearing Fit Size 1 ODE Initial Shaft Bearing Fit Size 2 ODE Initial Shaft Bearing Fit Size 3 ODE Finial Shaft Bearing Fit Size 1	,	
81. 82. 83. 84.	ODE Initial Shaft Bearing Fit Size 1 ODE Initial Shaft Bearing Fit Size 2 ODE Initial Shaft Bearing Fit Size 3 ODE Finial Shaft Bearing Fit Size 1 ODE Finial Shaft Bearing Fit Size 2	,	
81. 82. 83. 84. 85.	ODE Initial Shaft Bearing Fit Size 1 ODE Initial Shaft Bearing Fit Size 2 ODE Initial Shaft Bearing Fit Size 3 ODE Finial Shaft Bearing Fit Size 1 ODE Finial Shaft Bearing Fit Size 2 ODE Finial Shaft Bearing Fit Size 3	,	
81. 82. 83. 84. 85.	ODE Initial Shaft Bearing Fit Size 1 ODE Initial Shaft Bearing Fit Size 2 ODE Initial Shaft Bearing Fit Size 3 ODE Finial Shaft Bearing Fit Size 1 ODE Finial Shaft Bearing Fit Size 2 ODE Finial Shaft Bearing Fit Size 3 DE Air Seal Shaft Fit	,	
81. 82. 83. 84. 85. 86.	ODE Initial Shaft Bearing Fit Size 1 ODE Initial Shaft Bearing Fit Size 2 ODE Initial Shaft Bearing Fit Size 3 ODE Finial Shaft Bearing Fit Size 1 ODE Finial Shaft Bearing Fit Size 2 ODE Finial Shaft Bearing Fit Size 3 DE Air Seal Shaft Fit DE Initial Air Seal Shaft Size	,	

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9	91.	ODE Initial Air Seal Shaft Size	
9:	92.	ODE Final Air Seal Shaft Size	
9	93.	DE Endbell Fit	(F) Fail
9)4.	DE Initial Endbell Fit Size 1	5.908 "
9	95.	DE Initial Endbell Fit Size 2	5.907 "
9	96.	DE Initial Endbell Fit Size 3	5.908 "
9	7.	DE Final Endbell Fit Size 1	5.9061 "



98. DE Finial Endbell Fit Size 2	5.9062 "
99. DE Final Endbell Fit Size 3	5.9061 "
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	(F) Fail
Lip worn in	
105. ODE Initial Endbell Fit Size 1	3.94 "
106. ODE Initial Endbell Fit Size 2	3.938 "
107. ODE Initial Endbell Fit Size 3	3.938 "
108. ODE Final Endbell Fit Size 1	3.9375 "



109. ODE Final Endbell Fit Size 2	3.9375 "
110. ODE Final Endbell Fit Size 3	3.9375 "
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	(NA) Not Applicable
116. Foot Condition	(NA) Not Applicable
117. Flange Condition	(P) Pass
118. Service Technician	Terrence. Holland

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Balancing Report

119. Balance Type



120. Balance Operating Speed	419.22 RPM
121. Start Left End	1.05 Mills
122. Start Right End	1.36 Mills
123. Balancing Specification	
124. Finish Left End	0.22 Mills
125. Finish Right End	0.08 Mills
126. Service Technician	RW

AL

Assembly and Final Test



128. Surge Test	(P) Pass
129. Hi-Pot	
130. Winding Resistance 1-2	
131. Winding Resistance 2-3	
132. Winding Resistance 1-3	
133. Test Run Voltage Phase A	461 Volts



134. Test Run Amps A18.7 Amps135. Test Run Voltage Phase B459 Volts



136. Test Run Amps B 18.1 Amps



138. Test Run Amps C	18.5 Amps
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	(P) Pass







159. Service Technician RW

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- 2. PRICE. All quoted prices shall remain firm and binding for a period of thirty (30) days from the date of quotation or for the period specifically stated in the quotation. The price for any and all goods and/or services ordered or approved by Buyer after thirty (30) days from the date of any quotation are subject to any increase in price that may occur after the expiration of thirty (30) days from the issuance of the quotation and the date the Buyer releases any shipment.
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