



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

AC Recondition Repair Report

FolderID: 98668
FormID: 11492038

3M-Main Plant (10001)
310 Walter Road
Little Rock, AR 72216

Priorities Found: ● 5 - High ● 10 - Good

General

1. Job Number	98668
2. Report Date	09/01/2021
3. Customer	3M

Name Plate Information

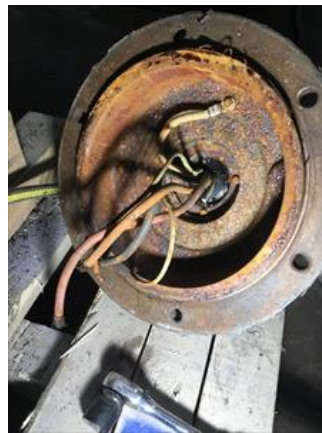


4. Manufacturer	Eliminator	P5
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5.	Model	SBLH40-4T4
6.	Serial Number	0825
7.	Horsepower	40
8.	KW	30
9.	Volts	460
10.	Amps	52
11.	RPM	
	280 GPM 116 Feet	
12.	Frame	
13.	Enclosure	Submersible Pump
14.	Cycles	60
15.	Phase	3
16.	Service Factor	
17.	Motor Mount Position	
Initial Inspection		
18.	Number of Leads	9
19.	Lead Length	Inches
20.	Lead Size	
21.	Lead Condition	(F) Fail
22.	Lead Markings	
23.	Lug Size, Condition, and Type	
24.	Winding RTD's	
25.	Winding Rtd's Condition	

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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 <i>Water</i>		
● 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	
Mechanical Inspection			
50.	Bearing Manufacture	koyo	
51.	Bearing DE Size	7314B	
52.	Bearing DE Type	thrust	P23
			
53.	DE Bearing Qty.	2	
54.	Bearing ODE Size	6309	

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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

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63. DE Seal Type/Size

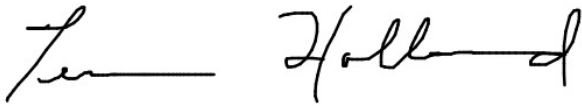
double sided proprietary seal

☒ 64. ODE Seal

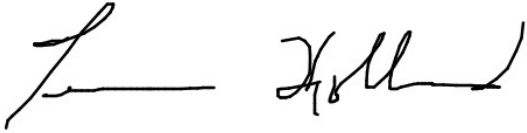
(Y) Yes

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65.	ODE Seal Type/Size	
Root Cause of Failure		
66.	Component Failure	seals
67.	Cause of Failure	
	<i>Seals failed due to shaft seal surface being worn</i>	
68.	Comments	
	<i>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</i>	
69.	Service Technician	Terrence. 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	
80.	ODE Bearing Shaft Fit	(F) Fail
81.	ODE Initial Shaft Bearing Fit Size 1	1.771 "
82.	ODE Initial Shaft Bearing Fit Size 2	
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 Fit	
91.	ODE Initial Air Seal Shaft Size	
92.	ODE Final Air Seal Shaft Size	
93.	DE Endbell Fit	
94.	DE Initial Endbell Fit Size 1	
95.	DE Initial Endbell Fit Size 2	
96.	DE Initial Endbell Fit Size 3	
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	

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103.	Finial Endbell Air Seal Fit Size	
104.	ODE Endbell Fit	(F) Fail
	<i>Lip worn in</i>	
105.	ODE Initial Endbell Fit Size 1	
106.	ODE Initial Endbell Fit Size 2	
107.	ODE Initial Endbell Fit Size 3	
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	(NA) Not Applicable
116.	Foot Condition	(NA) Not Applicable
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 |
| 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 |
| 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 |

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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