



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

AC Recondition Repair Report

FolderID: 99041
FormID: 12234875

Vulcan Materials
125 Rock Lane
Judsonia, AR 72081

Priorities Found: ● 3 - High ● 9 - Good

General

1. Job Number	99041
2. Report Date	11/30/2021
3. Customer	Vulcan Materials

Name Plate Information



4. Manufacturer	Toshiba	P5
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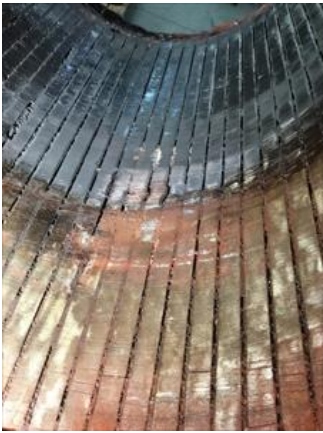


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










5. Model	B3006ELF4BM
6. Serial Number	94605371
7. Horsepower	300
8. KW	
9. Volts	460
10. Amps	354
11. RPM	1185
12. Frame	N587UZ
13. Enclosure	TEFC
14. Cycles	60
15. Phase	3

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16.	Service Factor	1.15
17.	Motor Mount Position	
Initial Inspection		
18.	Number of Leads	6
	#1-6	
19.	Lead Length	11 Inches
20.	Lead Size	
21.	Lead Condition	P42
		
22.	Lead Markings	1-6
23.	Lug Size, Condition, and Type	
24.	Winding RTD's	
25.	Winding Rtd's Condition	
26.	Shaft Run Out	
27.	Does Shaft Turn Freely	
28.	Does Shaft Have Visible Damage	no
29.	Bearing Rtd's	
30.	Bearing Rtd's Condition	
31.	Contamination	P104
	<i>Grease contaminated and dirty</i>	
		
		

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32.	Frame Condition	(P) Pass
33.	Fan Condition	(P) Pass
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	core repair needed on iron
43.	Failure Location	iron core laminations
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	
48.	Growler Test	
49.	Rotor Condition	
Mechanical Inspection		
50.	Bearing Manufacture	koyo
51.	Bearing DE Size	324R



53. DE Bearing Qty.

1

54. Bearing ODE Size

6320Z/C3

55. Bearing ODE Type

6320 ZX

P53



56. ODE Bearing Qty.

1

57. Insulated Bearing

no

58. Lubrication Type

grease

59. Grease Condition

(F) Fail

60. Bearing Retainers

(Y) Yes

61. Shaft Grounding Device

62. DE Seal

(NA) Not Applicable

63. DE Seal Type/Size

64. ODE Seal

65. ODE Seal Type/Size

Root Cause of Failure

66. Component Failure

**o.d.e housing fit is grooved
and needs machining.**

67. Cause of Failure


Windings shorted inside stator housing core.

68. Comments

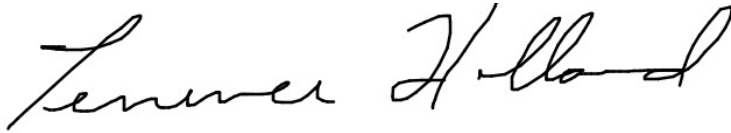
Stator core needs core test.



Machine Fit Inspection Report

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	4.7252 "
75.	DE Initial Shaft Bearing Fit Size 2	4.7252 "
76.	DE Initial Shaft Bearing Fit Size 3	4.7251 "
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	3.9373 "
82.	ODE Initial Shaft Bearing Fit Size 2	3.9375 "
83.	ODE Initial Shaft Bearing Fit Size 3	3.9375 "
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	10.2371 "
95.	DE Initial Endbell Fit Size 2	10.237 "
96.	DE Initial Endbell Fit Size 3	10.2371 "
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	(F) Fail
	 Excessive wear. Groove worn in.	
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	

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110.	ODE Final Endbell Fit Size 3	
111.	ODE Endbell Fit Insulated	
112.	ODE Endbell Air Seal Fit	
113.	ODE Initial Endbell Seal Fit Size	
114.	ODE Final Endbell Seal Fit Size	
●	115. Foot Flatness	(P) Pass
●	116. Foot Condition	(P) Pass
●	117. Flange Condition	(NA) Not Applicable
	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. | Megger 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 |

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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