

# **Motor Shop Repairs**

## **Job Number 99008**

Prepared for Vulcan Materials

125 Rock Lane Judsonia AR 72081

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### **AC Recondition Repair Report**

**Vulcan Materials** 

125 Rock Lane Judsonia, AR 72081

Priorities Found: 3 - High

11 - Good

General		
<ol> <li>Job Number</li> </ol>		99008
<ol><li>Report Date</li></ol>		11/17/2021
3. Customer		Vulcan Materials
Name Plate Information		

4. Manufacturer WEG











5.	Model	30012ES3GKD586
6.	Serial Number	10MAI07 0C05648
7.	Horsepower	300
8.	KW	
9.	Volts	460
10.	Amps	361
11.	RPM	1190
12.	Frame	586T
13.	Enclosure	TEFC

14.	Cycles	60
15.	Phase	3
16.	Service Factor	1.15
17.	Motor Mount Position	
Initial	Inspection	
18.	Number of Leads	12
19.	Lead Length	24 Inches
20.	Lead Size	2
21.	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	
27.	Does Shaft Turn Freely	yes
28.	Does Shaft Have Visible Damage	
29.	Bearing Rtd's	
30.	Bearing Rtd's Condition	
31.	Contamination	
32.	Frame Condition	(P) Pass
<ul><li>33.</li></ul>	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	
<b>41</b> .	Surge Test	(P) Pass
42.	Stator Condition	recondition
43.	Failure Location	
Initial	Rotor Inspection	
44.	Rotor Type	cast aluminum



45. Air Gap <10% Variation  46. Number of Rotor Bars  47. Number of Broken Rotor Bars  48. Growler Test  (P) Pass  49. Rotor Condition  (P) Pass  Mechanical Inspection  50. Bearing Manufacture  51. Bearing DE Size  52. Bearing DE Type			
47. Number of Broken Rotor Bars  48. Growler Test  (P) Pass  49. Rotor Condition  (P) Pass  Mechanical Inspection  50. Bearing Manufacture  51. Bearing DE Size  52. Bearing DE Type  roller	45.	Air Gap <10% Variation	
<ul> <li>48. Growler Test</li> <li>49. Rotor Condition</li> <li>(P) Pass</li> <li>Mechanical Inspection</li> <li>50. Bearing Manufacture</li> <li>51. Bearing DE Size</li> <li>52. Bearing DE Type</li> <li>roller</li> </ul>	46.	Number of Rotor Bars	58
<ul> <li>49. Rotor Condition</li> <li>Mechanical Inspection</li> <li>50. Bearing Manufacture</li> <li>51. Bearing DE Size</li> <li>52. Bearing DE Type</li> <li>roller</li> </ul>	47.	Number of Broken Rotor Bars	0
Mechanical Inspection50. Bearing Manufactureskf51. Bearing DE Sizenu32252. Bearing DE Typeroller	<b>48</b> .	Growler Test	(P) Pass
50. Bearing Manufactureskf51. Bearing DE Sizenu32252. Bearing DE Typeroller	<b>4</b> 9.	Rotor Condition	(P) Pass
51. Bearing DE Size nu322 52. Bearing DE Type roller	Mech	anical Inspection	
52. Bearing DE Type roller	50.	Bearing Manufacture	skf
	51.	Bearing DE Size	nu322
	52.	Bearing DE Type	roller
53. DE Bearing Qty.	53.	DE Bearing Qty.	1









56.	ODE Bearing Qty.	1
57.	Insulated Bearing	
58.	Lubrication Type	grease
59.	Grease Condition	(F) Fail



● 60. Bearing Retainers (Y) Yes



- 61. Shaft Grounding Device
- 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, endbell
67.	Cause of Failure	
	Normal wear	
68.	Comments	
69.	Service Technician	Trevor Hall
	- Juli	
Mach	ine Fit Inspection Report	
70.	Shaft Run Out	
71.		
72.	Final Shaft Run Out	
<b>7</b> 3.	3	(P) Pass
74.	DE Initial Shaft Bearing Fit Size 1	4.3316 "
75.	DE Initial Shaft Bearing Fit Size 2	4.3314 "
76.	DE Initial Shaft Bearing Fit Size 3	4.3314 "
77.	DE Finial Shaft Bearing Fit Size 1	
78.	DE Finial Shaft Bearing Fit Size 2	
79.	DE Finial Shaft Bearing Fit Size 3	
<b>8</b> 0.	ODE Bearing Shaft Fit	(P) Pass
81.	ODE Initial Shaft Bearing Fit Size 1	3.7409 "
82.	ODE Initial Shaft Bearing Fit Size 2	3.7409 "
83.	ODE Initial Shaft Bearing Fit Size 3	3.7409 "
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

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93. DE Endbell Fit (P) Pass



94.	DE Initial Endbell Fit Size 1	9.449 "
95.	DE Initial Endbell Fit Size 2	9.449 "
96.	DE Initial Endbell Fit Size 3	9.449 "
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	
101.	DE Endbell Air Seal Fit	
102.	Initial Endbell Air Seal Fit Size	
103.	Finial Endbell Air Seal Fit Size	
<b>1</b> 04.	ODE Endbell Fit	(F) Fail





105. ODE Initial Endbell Fit Size 1	7.8765 "
106. ODE Initial Endbell Fit Size 2	7.8765 "
107. ODE Initial Endbell Fit Size 3	7.8765 "
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	
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
<b>116.</b>	. Foot Condition (P)	Pass
117.	. Flange Condition	
118.	. Service Technician Trevol	r Hall
	/ - // <del>/</del> //	
Balan	ncing Report	
	. 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	
Assen	mbly 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	
	. Test Run Amps C	
139.	. DE Horizontal Vibration Reading	
	. DE Vertical Vibration Reading	
	. DE Axial Vibration Reading	
	. ODE Horizontal Vibration Reading	
	. ODE Vertical Vibration Reading	
	. ODE Axial Vibration Reading	
	. Ambient Temp at start of Test Run	
	. Temp at 5 minutes	
	. Temp at 10 minutes	
	. Temp at 15 minutes	
	. Temp at 20 minutes	
	. Temp at 25 minutes	
	. Temp at 30 minutes	
	. Temp at 35 minutes	
	. Temp at 40 minutes	
	. 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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- 1. APPLICABILITY. The sale of any and all goods and/or services by Mock, Inc. d/b/a Hi-Speed Industrial Service ("Hi-Speed") shall be specifically conditioned upon and subject to the following terms and conditions which are incorporated by reference into any contracts and purchase orders with Hi-Speed, and which shall form and become a part of any agreement related thereto. Buyer's acceptance of any offer or quotation made by Hi-Speed for sale of any goods or services is expressly made subject to the terms and conditions set forth herein and to be so effective, Buyer need not sign or approve these Terms and Conditions to be bound hereunder provided a copy of same is provided to Buyer through any means. None of the terms and conditions contained herein may be added to, expanded, changed, modified, superseded or otherwise altered except as revised in writing and duly executed by Hi-Speed, and all orders received by Hi-Speed shall be governed only by the terms and conditions contained herein, notwithstanding any terms, conditions or provisions of any purchase order, release order, authorization or any other form issued by the Buyer. Hi-Speed hereby objects to any additional, modified, changed, deleted, altered or other terms and conditions not contained herein and notifies Buyer that any such terms or provisions are expressly rejected by Hi-Speed.
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- 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.
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