



AC Inspection as Found

Beasley Flooring (12083)

485 HWY 9 SPUR
MELBOURNE, AR 72556

FolderID: 104433
FormID: 24065549

AC Inspection - Rev. 2

Location: MOTOR SHOP LR

Serial Number: BB91829

Description: 60 HP WEG

Hi-Speed Job Number: 104433

Manufacturer: WEG

Product Number: 06018EP3E364T

Serial Number: BB91829

HP/kW: 60 (HP)

RPM: 1775 (RPM)

Frame: 364/5T

Voltage: 208-230/460

Current: 134/67 (Amps)

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.25

Enclosure: TEFC

of Leads: 12

J-box Included: Complete

Coupling/Sheave: None

Date Received: 04/15/2025

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final

Rewind: No


Shaft Machined Fit Repairs
Required: No

Bearing Housing Machined
Fit Repairs Required: No

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found:  16 - Good

Overall Condition



1. Report Date

04/15/2025







4.	Describe the Overall Condition of the Equipment as Received <i>Serviceable</i>	
5.	Is this a UL Listed Motor	(No) No
6.	Is the motor water cooled or can be pressure checked before teardown	(No) No
Initial Mechanical/Electrical		<input type="checkbox"/>
7.	Does Shaft Turn Freely?	(Y) Yes
8.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
9.	Does Shaft Have Visible Damage?	(No) No
10.	Assembled Shaft Runout	0.001 Inches
11.	Assembled Shaft End Play	0 inches
12.	Air Gap Variation <10%	



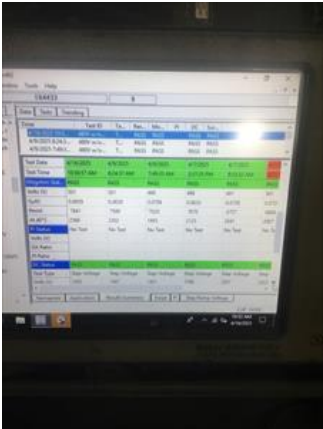
14.	Lead Length	8 Inches	
15.	Does it have Lugs?, If so what is the Stud Size?	(No) No	
16.	Lead Numbers	1-12	
17.	Are the Leads insulated with Chico or other material	(No) No	
18.	Frame Condition	pass	
19.	Fan Condition	(P) Pass	P119



20. Does motor have internal fan?	(No) No
21. Broken or Missing Components	none

Initial Electrical Inspection

22. Insulation Resistance/Megger	Megohms	P8
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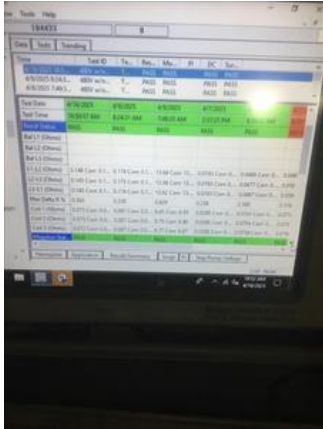
23. Winding Resistance

P20

1-2

1-3

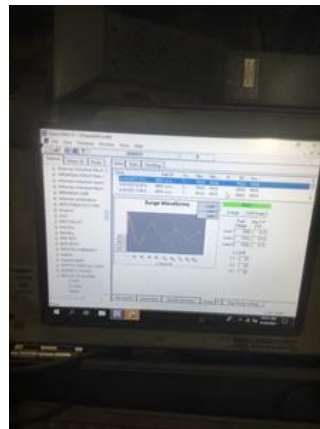
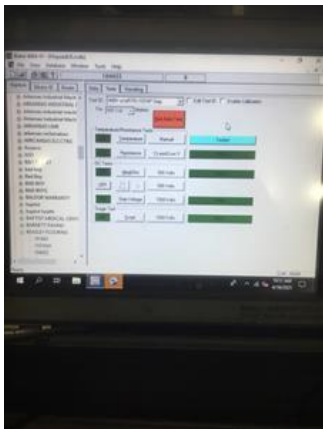
2-3



24. Perform Surge Test

(P) Pass

P57



25. Number of Stator Slots

72

26. Stator Condition

pass

27. Stator Thermistors/Ohms

189.9

P91



28. Stator Overloads/Ohms

Mechanical Inspection



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30. Drive End Bearing Number-	6314 C3
31. Drive End Bearing Qty.	1
32. Drive End Bearing Type	(Ball) Ball Bearing
33. Drive End Lubrication Type	(Grease) Grease Lubricated
34. Drive End Bearing Insulation or Grounding Device?	none
35. Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring
36. Drive End Bearing Condition	worn
37. Opposite Drive End Bearing Brand	NSK



38. Opposite Drive End Bearing Number-	6314 C3
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39. Opposite Drive End Bearing Qty.	1
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40. Opposite Drive End Bearing Type	(Ball) Ball Bearing	
41. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
42. Opposite Drive End Bearing Insulation or Grounding Device?	none	
43. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	spring loaded cap	
44. Opposite Drive End Bearing Condition		P120



45. Drive End Seal
46. Opposite Drive End Seal

Rotor Inspection



47. Rotor Type/Material **(Squirrel Aluminum) Squirrel
Cage Aluminum Die Cast**

P3



48. Growler Test **(Pass) Pass**
49. Number of Rotor Bars **58**
50. Rotor Condition **pass**




51. List the Parts needed for the Repair Below
2) 6314 C3 bearings

52. Signature of Technician that Disassembled Motor **Terrence Holland**

Mechanical Fits- Rotor

53. Shaft Runout **0.001 inches**

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54. Rotor Runout	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
55. Coupling Fit Closest to Bearing Housing	0 Degrees	90 Degrees	120 Degrees
56. Coupling Fit Closest to the end of the Shaft	0 Degrees	60 Degrees	120 Degrees
57. Drive End Bearing Shaft Fit	0 Degrees	60 Degrees	120 Degrees
	2.7567	2.7568	2.7569
58. Drive End Bearing Shaft Fit Condition	(P) Pass		
59. Opposite Drive End Bearing Shaft Fit	0 Degrees	60 Degrees	120 Degrees
	2.7567	2.7567	2.7568
60. Opposite Drive End Bearing Shaft Fit Condition	(P) Pass		
61. Shaft Air Seal Fits	Drive End Air Seal	Opposite Drive End Air Seal	
Mechanical Fits- Bearing Housings			
62. Drive End - Endbell Bearing Fit	0 Degrees	60 Degrees	120 Degrees
	5.9059	5.906	5.9061
63. Drive End - Endbell Bearing Fit Condition	(P) Pass		
64. Opposite Drive End - Endbell Bearing Fit	0 Degrees	60 Degrees	120 Degrees
	5.906	5.9061	5.9063
65. Opposite Drive End - Endbell Bearing Fit Condition	(P) Pass		
66. Bearing Cap Condition	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	pass	pass	
67. End Bell Air Seal Fits	Drive End Air Seal	Opposite Drive End Air Seal	
68. List Machine Work Needed Below	<i>None</i>		
69. Technician	<div style="display: flex; justify-content: space-around; align-items: center;">   </div> <div style="text-align: right; margin-top: 10px;">Terrence Holland</div>		
<div style="display: flex; justify-content: space-between; align-items: center;"> Co sign: RRW  </div>			
Root Cause of Failure			
70. Failure locations	<i>Both bearings</i>		

Electrical fluting in ODE bearing

Sub surface initiated fatigue in DE bearing & contaminated grease.



Dynamic Balance Report

72. Rotor Weight and Balance Grade

Rotor Weight

Balance Grade

73. Initial Balance Readings

Drive End

Opposite Drive End

74. Final Balance Readings

Drive End

Opposite Drive End

75. Technician

Assembly

76. QC Check All Parts for Cleanliness Prior to Assembly

77. Photograph All Major Components prior to assembly

78. Final Insulation Resistance Test

79. Assembled Shaft Endplay

80. Assembled Shaft Runout

81. Test Run Voltage

Volts

Volts

Volts

82. Test Run Amperage

Amps

Amps

Amps

83. Drive End Vibration Readings - Inches Per Second

Horizontal

Vertical

Axial

84. Opposite Drive End Vibration Readings - Inches Per Second

Horizontal

Vertical

Axial

85. Ambient Temperature - Fahrenheit

86. Drive End Bearing Temps - Fahrenheit

5 Minutes

10 Minutes

15 Minutes

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87. Opposite Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
88. Document Final Condition with Pictures after paint			
89. Final Pics and QC Review			