



## AC Inspection as Found

Weaver-Bailey Contractors

1601 Mayor Lane  
Conway, AR 72032

FolderID: 104393  
FormID: 23953959

### AC Inspection - Rev. 2

Location: MOTOR SHOP LR

Serial Number:

Description: BALDOR MOTOR-NAMEPLATE  
DAMAGED

Hi-Speed Job Number: 104393

Manufacturer: Baldor

RPM: 1780 (RPM)

Frame: 404T

Voltage: 230 / 460

Current: 236/118 (Amps)

Phase: Three

Hz: 60 (Hz)

Enclosure: ODP

# of Leads: 9

J-box Included: Complete

Coupling/Sheave: None

Date Received: 04/01/2025

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final

Rewind: No

Shaft Machined Fit Repairs  
Required: Yes

Bearing Housing Machined  
Fit Repairs Required: Yes

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found: ● 2 - High

● 10 - Good

### Overall Condition



1. Report Date

04/07/2025

2. Nameplate Picture

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3. Photos of all six sides of the machine.

P45

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4. Describe the Overall Condition of the Equipment as Received  
*Coated with hardened concrete.*

#### Initial Mechanical/Electrical



5.	Does Shaft Turn Freely?	(Y) Yes	
6.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No	
7.	Does Shaft Have Visible Damage?	(No) No	
8.	Assembled Shaft Runout	0.001 Inches	
9.	Assembled Shaft End Play	0 inches	
10.	Air Gap Variation <10%		
11.	Lead Condition	(P) Pass	P69



12.	Lead Length	10 Inches	
13.	Does it have Lugs?, If so what is the Stud Size?	(No) No	
14.	Lead Numbers	1-9	
15.	Frame Condition	dirty	
16.	Fan Condition		
17.	Does motor have internal fan?	(No) No	
18.	Broken or Missing Components	none	

#### Initial Electrical Inspection



Coil 1 (Ohms)	Coil 2 (Ohms)	Coil 3 (Ohms)
0.0718	0.0718	0.1303
0.0757	0.0758	0.1309
0.0766	0.0768	0.1310
Megger Status	No Test	No Test
Voltage (V)	501	304
Resistance	0.0728	0.0661
Resist	8884	7620
At 40°C	2007	2057
PI Status	No Test	No Test
Voltage (V)	No Test	No Test
DC Voltage	No Test	No Test
PI Status	No Test	No Test

## 20. Winding Resistance

P20

1-2

1-3

2-3

22.8

22.2

22.8

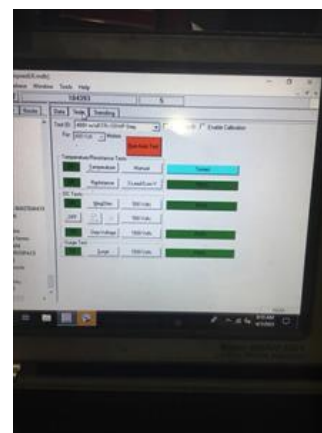
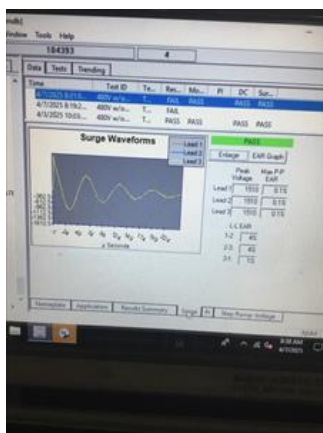
Test ID	Test Date	Test Time	Test Status	Test Temp (°C)	Test Resist (Ohms)	Test PI	Test DC	Test Sur
4/7/2025 8:11:51	4/7/2025	8:11:51 AM	Tested	22.2	0.0488	0.0488	0.0488	0.0488
4/7/2025 8:19:21	4/7/2025	8:19:21 AM	Tested	22.8	0.0488	0.0488	0.0488	0.0488
4/7/2025 10:03:11	4/7/2025	10:03:11 AM	Tested	21.1	0.0488	0.0488	0.0488	0.0488

Test ID	Test Date	Test Time	Test Status	Test Temp (°C)	Test Resist (Ohms)	Test PI	Test DC	Test Sur
4/7/2025 8:11:51	4/7/2025	8:11:51 AM	Tested	22.2	0.0488	0.0488	0.0488	0.0488
4/7/2025 8:19:21	4/7/2025	8:19:21 AM	Tested	22.8	0.0488	0.0488	0.0488	0.0488
4/7/2025 10:03:11	4/7/2025	10:03:11 AM	Tested	21.1	0.0488	0.0488	0.0488	0.0488

## 21. Perform Surge Test

(P) Pass

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## 22. Number of Stator Slots

48

## 23. Stator Condition

pass

## 24. Stator Thermistors/Ohms

## 25. Stator Overloads/Ohms

## Mechanical Inspection





26. Drive End Bearing Brand

NTN

P12



27. Drive End Bearing Number-

6316 C3

28. Drive End Bearing Qty.

1

29. Drive End Bearing Type

(Ball) Ball Bearing

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30. Drive End Lubrication Type

(Grease) Grease Lubricated

31. Drive End Bearing Insulation or Grounding Device?

none

32. Drive End Wavy Washer/Snap-Ring Other Retention Device?

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Star washer and lock nut



33. Drive End Bearing Condition

Replace

34. Opposite Drive End Bearing Brand

FAG

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35. Opposite Drive End Bearing Number-

**6312 2Z/C3**

P99



36. Opposite Drive End Bearing Qty.

**1**

37. Opposite Drive End Bearing Type

**(Ball) Ball Bearing**

P106



38. Opposite Drive End Lubrication Type

**(Grease) Grease Lubricated**

39. Opposite Drive End Bearing Insulation or Grounding Device?

**none**

40. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?

**wavy washer**

41. Opposite Drive End Bearing Condition

**replace**

42. Drive End Seal

**none**

43. Opposite Drive End Seal

**none**

## Rotor Inspection



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45. Growler Test (Pass) Pass
46. Number of Rotor Bars 48
47. Rotor Condition pass
48. List the Parts needed for the Repair Below  
 1) 6316 C3  
 1) 6312 2Z/C3  
 Machine ODE housing fit, DE shaft bearing fit.
49. Signature of Technician that Disassembled Motor Terrence Holland

### Mechanical Fits- Rotor

50. Shaft Runout 0.001 inches
51. Rotor Runout
- | Drive End Bearing Fit                                       | Rotor Body | Opposite Drive End Bearing |
|---|------------|----------------------------|
| 52. Coupling Fit Closest to Bearing Housing                 |            |                            |
| 0 Degrees   | 90 Degrees | 120 Degrees                |
| 53. Coupling Fit Closest to the end of the Shaft            |            |                            |
| 0 Degrees   | 60 Degrees | 120 Degrees                |
| 2.8748  | 2.8749     | 2.8748                     |
| 54. Drive End Bearing Shaft Fit                             |            |                            |
| 0 Degrees   | 60 Degrees | 120 Degrees                |
| 3.1494  | 3.1495     | 3.1495                     |
| (2) 10ths under minimum                                     |            |                            |
| 55. Drive End Bearing Shaft Fit Condition (F) Fail          |            |                            |
| See item 54   |            |                            |
| 56. Opposite Drive End Bearing Shaft Fit                    |            |                            |
| 0 Degrees   | 60 Degrees | 120 Degrees                |
| 2.3629  | 2.3628     | 2.3628                     |
| 57. Opposite Drive End Bearing Shaft Fit Condition (P) Pass |            |                            |

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## 58. Shaft Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

## Mechanical Fits- Bearing Housings



## 59. Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

6.6935

6.6934

6.6936

## 60. Drive End - Endbell Bearing Fit Condition

(P) Pass

## 61. Opposite Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

Failed, lip worn in.

## 62. Opposite Drive End - Endbell Bearing Fit Condition

(F) Fail

See item 61

## 63. Bearing Cap Condition

Drive End Bearing Cap

Opposite Drive End Bearing Cap

pass

n/a

## 64. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

## 65. List Machine Work Needed Below

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ODE housing fit bad. DE shaft it measures too small.



## 66. Technician

Terrence Holland

Co sign:

## Root Cause of Failure





*ODE housing it, and DE shaft bearing it out o tolerance. ODE bearing shows signs of fluting.*



68. Root cause of failure

*DE shaft fit and, ODE housing fit.*

### Dynamic Balance Report

69. Rotor Weight and Balance Grade

Rotor Weight	Balance Grade
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70. Initial Balance Readings

Drive End	Opposite Drive End
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71. Final Balance Readings

Drive End	Opposite Drive End
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72. Technician

### Mechanical Fits- Rotor - Post Repair

73. Shaft Runout Post Repair

74. Rotor Runout Post Repair

Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
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75. Coupling Fit Closest to Bearing Housing Post Repair

0 Degrees	90 Degrees	120 Degrees
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76. Coupling Fit Closest to the end of the Shaft Post Repair

0 Degrees	60 Degrees	120 Degrees
-----------	------------	-------------

77. Drive End Bearing Shaft Fit Post Repair

0 Degrees	60 Degrees	120 Degrees
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78. Opposite Drive End Bearing Shaft Fit Post Repair

0 Degrees	60 Degrees	120 Degrees
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79. Shaft Air Seal Fits Post Repair

Drive End Air Seal	Opposite Drive End Air Seal
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80.	Shaft Repair Sign-off		
Mechanical Fits- Bearing Housings - Post Repair			
81.	Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
82.	Opposite Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
83.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
84.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
85.	End Bell Repair Sign-off		
Assembly			
86.	QC Check All Parts for Cleanliness Prior to Assembly		
87.	Photograph All Major Components prior to assembly		
88.	Final Insulation Resistance Test		
89.	Assembled Shaft Endplay		
90.	Assembled Shaft Runout		
91.	Test Run Voltage		
	Volts	Volts	Volts
92.	Test Run Amperage		
	Amps	Amps	Amps
93.	Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
94.	Opposite Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
95.	Ambient Temperature - Fahrenheit		
96.	Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
97.	Opposite Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
98.	Document Final Condition with Pictures after paint		
99.	Final Pics and QC Review		