



## AC Inspection as Found

Hormel (11974)  
8201 Fraizer Pike  
Little Rock, AR 72206

FolderID: 103163  
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### AC Inspection - Rev. 2

Location: MOTOR SHOP LR  
Serial Number: B9040686-010L001  
Description: 200HP BALDOR EVAL

Hi-Speed Job Number:	103163
Manufacturer:	Baldor
Product Number:	Z44G8505
Serial Number:	B9040686-010L001
HP/kW:	200 (HP)
RPM:	3575 (RPM)
Frame:	447TY
Voltage:	460
Current:	222
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	6
J-box Included:	None
Coupling/Sheave:	None
Date Received:	06/26/2024
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	Yes
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: ● 1 - High ● 10 - Good

### Overall Condition



1. Report Date

06/26/2024

2. Nameplate Picture

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3. Photos of all six sides of the machine.

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4. Describe the Overall Condition of the Equipment as Received

*Serviceable*

#### 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
12.	Lead Length	17 Inches
13.	Does it have Lugs?, If so what is the Stud Size?	(Yes) Yes
14.	Lead Numbers	1-3
15.	Frame Condition	pass
16.	Fan Condition	(P) Pass
17.	Broken or Missing Components	

*Connection box missing.*

#### Initial Electrical Inspection



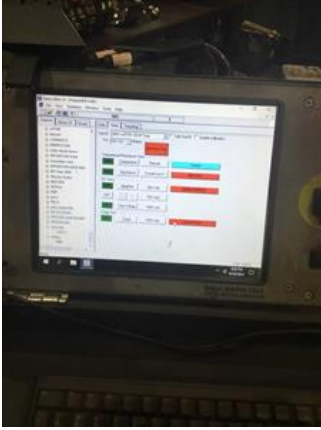
18.	Insulation Resistance/Megger	Megohms
19.	Winding Resistance	

1-2

1-3

2-3

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21. Number of Stator Slots	48
22. Stator Condition	rewind
23. Stator Thermistors/Ohms	na
24. Stator Overloads/Ohms	na

**Mechanical Inspection**

25. Drive End Bearing Brand	FAG
26. Drive End Bearing Number-	NU313 E XL M1-C3
27. Drive End Bearing Qty.	1
28. Drive End Bearing Type	(Roller) Roller Bearing
29. Drive End Lubrication Type	(Oil) Oil Lubricated
30. Drive End Bearing Insulation or Grounding Device?	none
31. Drive End Wavy Washer/Snap-Ring Other Retention Device?	none
32. Drive End Bearing Condition	replace
33. Opposite Drive End Bearing Brand	FAG
34. Opposite Drive End Bearing Number-	6313 2Z/C3
35. Opposite Drive End Bearing Qty.	1
36. Opposite Drive End Bearing Type	(Ball) Ball Bearing
37. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
38. Opposite Drive End Bearing Insulation or Grounding Device?	none
39. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring
40. Opposite Drive End Bearing Condition	replace
41. Drive End Seal	65*85*10

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**Rotor Inspection**

43. Rotor Type/Material

**(Squirrel Aluminum) Squirrel  
Cage Aluminum Die Cast**

44. Growler Test

**(Pass) Pass**

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45. Number of Rotor Bars

**38**

46. Rotor Condition

**pass**

47. List the Parts needed for the Repair Below

*Fag 6313 2Z/C3--ODE bearing, and dust seal for housing: OD 3.3525--ID 2.5595  
Fag NU 313 E XL-M1-C3 DE bearing, and seal for housing 65\*85\*10*

48. Signature of Technician that Disassembled Motor

**Terrence Holland****Witness:****Mechanical Fits- Rotor**

49. Shaft Runout

**0.001 inches**

50. Rotor Runout

**Drive End Bearing Fit****Rotor Body****Opposite Drive End Bearing**



51.	Coupling Fit Closest to Bearing Housing		
	0 Degrees	90 Degrees	120 Degrees
52.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
53.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	2.56	2.56	2.56
54.	Drive End Bearing Shaft Fit Condition		(P) Pass
55.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	2.5603	2.5603	2.5604
56.	Opposite Drive End Bearing Shaft Fit Condition		(P) Pass
57.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
<b>Mechanical Fits- Bearing Housings</b>			
58.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	5.5131	5.5132	5.5131
59.	Drive End - Endbell Bearing Fit Condition		(P) Pass
60.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	5.512	5.5122	5.5121
61.	Opposite Drive End - Endbell Bearing Fit Condition		(P) Pass

62. Bearing Cap Condition

Drive End Bearing Cap  
pass

Opposite Drive End Bearing Cap  
pass



63. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

64. List Machine Work Needed Below

None

65. Technician

Terrence Holland

Root Cause of Failure



*Windings on DE show signs of short.*



67. Root cause of failure

*Unknown. Shows signs of turn to turn short.*

### Dynamic Balance Report

68. Rotor Weight and Balance Grade

Rotor Weight	Balance Grade

69. Initial Balance Readings

Drive End	Opposite Drive End

70. Final Balance Readings

Drive End	Opposite Drive End

71. Technician

### Rewind

72. Core Test Results - Watts loss per Pound

Pre-Burnout	Post Burnout

73. Core Hot Spot Test

Pre-Burnout	Post-Burnout

74. Post Rewind Electrical Test- Insulation Resistance

75. Post Rewind Polarization Index

76. Post Rewind Winding Resistance

1-2	1-3	2-3

77. Post Rewind Surge Test

78. Post Rewind Hi-Pot

79. Technician

### Assembly

80. QC Check All Parts for Cleanliness Prior to Assembly

81. Photograph All Major Components prior to assembly

82. Final Insulation Resistance Test

83. Assembled Shaft Endplay

84.	Assembled Shaft Runout		
85.	Test Run Voltage		
	Volts	Volts	Volts
86.	Test Run Amperage		
	Amps	Amps	Amps
87.	Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
88.	Opposite Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
89.	Ambient Temperature - Fahrenheit		
90.	Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
91.	Opposite Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
92.	Document Final Condition with Pictures after paint		
93.	Final Pics and QC Review		