



AC Inspection as Found
ARKANSAS INDUSTRIAL MACHINERY
3804 N. NONA ST
NORTH LITTLE ROCK, AR 72118

FolderID: 104286
FormID: 23740374

AC Inspection - Rev. 2

Location: LR MOTOR SHOP

Serial Number: A170217208.4

Description: 250 HP BALDOR

Hi-Speed Job Number: 104286

Manufacturer: Baldor

Product Number: A44-8935-0152

Serial Number: A170217208.4

HP/kW: 250 (HP)

RPM: 1785 (RPM)

Frame: 449TDZ

Voltage: 460

Current: 278 (Amps)

Phase: Three

Hz: 60 (Hz)

Enclosure: TEFC

of Leads: 6

J-box Included: None

Coupling/Sheave: Gear

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:  1 - Medium  13 - Good

Overall Condition



1. Report Date

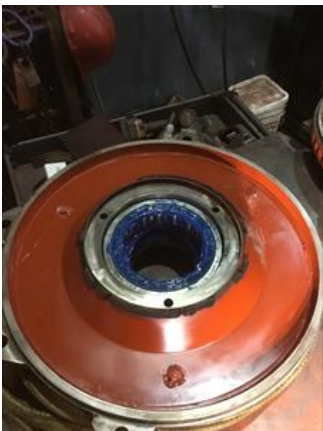
03/24/2025





6mm. Shaft in.







4. Describe the Overall Condition of the Equipment as Received
Serviceable

5. Distance from the end of the shaft to the Coupling/Sheave **0 inches**


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Initial Mechanical/Electrical

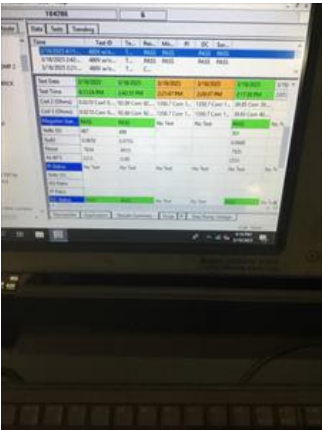


6.	Does Shaft Turn Freely?	(Y) Yes
7.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
8.	Does Shaft Have Visible Damage?	(No) No
9.	Assembled Shaft Runout	0.007 Inches
10.	Assembled Shaft End Play	0 inches
11.	Air Gap Variation <10%	
12.	Lead Condition	(P) Pass
13.	Lead Length	83 Inches
	6'11"	

14. Does it have Lugs?, If so what is the Stud Size?	(No) No	P93
		
15. Lead Numbers	1-6	
16. Frame Condition	pass	
17. Fan Condition	(P) Pass	
18. Does motor have internal fan?	(No) No	P118



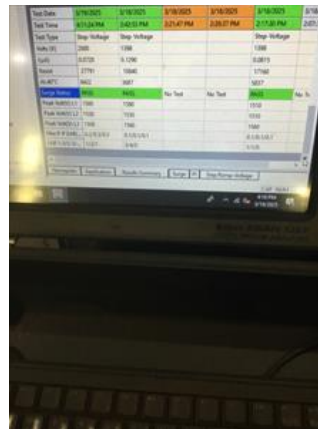
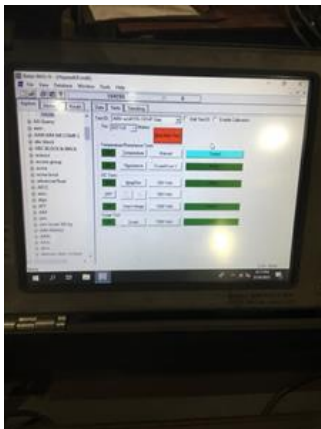
19. Broken or Missing Components	none	
Initial Electrical Inspection		
20. Insulation Resistance/Megger	Megohms	P8



1-2

1-3

2-3



Mechanical Inspection





29. Drive End Bearing Qty.	1
30. Drive End Bearing Type	(Roller) Roller Bearing
31. Drive End Lubrication Type	(Grease) Grease Lubricated
32. Drive End Bearing Insulation or Grounding Device?	none
33. Drive End Wavy Washer/Snap-Ring Other Retention Device?	
Snap ring	
34. Drive End Bearing Condition	good
35. Opposite Drive End Bearing Brand	FAG

P92



36. Opposite Drive End Bearing Number-	6318-2Z-C3
37. Opposite Drive End Bearing Qty.	1
38. Opposite Drive End Bearing Type	(Ball) Ball Bearing
39. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
40. Opposite Drive End Bearing Insulation or Grounding Device?	none
41. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring
42. Opposite Drive End Bearing Condition	

P117



- | | |
|-----------------------------|------|
| 43. Drive End Seal | none |
| 44. Opposite Drive End Seal | none |

Rotor Inspection

- | | |
|--------------------------|--|
| 45. Rotor Type/Material | (Squirrel Aluminum) Squirrel
Cage Aluminum Die Cast |
| 46. Growler Test | (Pass) Pass |
| 47. Number of Rotor Bars | 58 |
| 48. Rotor Condition | |
- Good

49. List the Parts needed for the Repair Below
 (1) NU 222-E-XL-M1-C3
 (1) 6318-2Z-C3

- | | |
|---|------------------|
| 50. Signature of Technician that Disassembled Motor | Terrence Holland |
|---|------------------|

Mechanical Fits- Rotor

- | | |
|------------------|--------------|
| 51. Shaft Runout | 0.003 inches |
|------------------|--------------|

52. Rotor Runout

Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
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53. Coupling Fit Closest to Bearing Housing

0 Degrees	90 Degrees	120 Degrees
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54. Coupling Fit Closest to the end of the Shaft

0 Degrees	60 Degrees	120 Degrees
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55. Drive End Bearing Shaft Fit



0 Degrees	60 Degrees	120 Degrees
4.332	4.332	4.33

- | | |
|---|----------|
| 56. Drive End Bearing Shaft Fit Condition | (P) Pass |
|---|----------|

57. Opposite Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
3.5438	3.5437	3.5438

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58.	Opposite Drive End Bearing Shaft Fit Condition			(P) Pass
59.	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
Mechanical Fits- Bearing Housings				
60.	Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	4.333	4.333	4.333	
61.	Drive End - Endbell Bearing Fit Condition			(P) Pass
62.	Opposite Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	7.481	7.481	7.4809	
63.	Opposite Drive End - Endbell Bearing Fit Condition			(P) Pass
64.	Bearing Cap Condition			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	good	good		
65.	End Bell Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
66.	List Machine Work Needed Below None			
67.	Technician			Terrence Holland
				
				
Root Cause of Failure				
68.	Failure locations None. See below.			
69.	Root cause of failure None. Motor recondition was requested by owning agency.			
Dynamic Balance Report				
70.	Rotor Weight and Balance Grade			
	Rotor Weight	Balance Grade		
71.	Initial Balance Readings			
	Drive End	Opposite Drive End		
72.	Final Balance Readings			
	Drive End	Opposite Drive End		
73.	Technician			
Assembly				
74.	QC Check All Parts for Cleanliness Prior to Assembly			

75.	Photograph All Major Components prior to assembly		
76.	Final Insulation Resistance Test		
77.	Assembled Shaft Endplay		
78.	Assembled Shaft Runout		
79.	Test Run Voltage		
	Volts	Volts	Volts
80.	Test Run Amperage		
	Amps	Amps	Amps
81.	Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
82.	Opposite Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
83.	Ambient Temperature - Fahrenheit		
84.	Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
85.	Opposite Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
86.	Document Final Condition with Pictures after paint		
87.	Final Pics and QC Review		