



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:  16 - Good

Overall Condition



1. Report Date

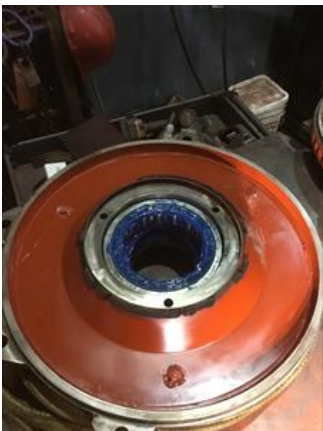
03/24/2025





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

P76




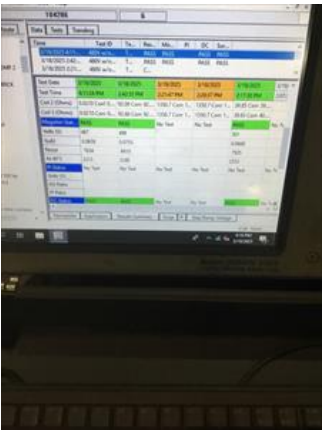


Initial Mechanical/Electrical



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	0.002 Inches
10.	Assembled Shaft End Play	0 inches
11.	Air Gap Variation <10%	
12.	Lead Condition	(P) Pass

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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

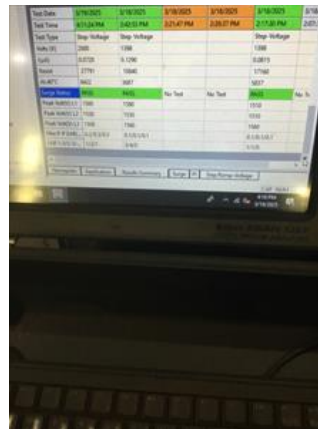
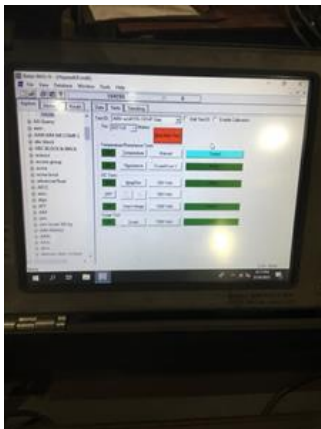
2-3



22. Perform Surge Test

(P) Pass

P57



23. Number of Stator Slots

72

24. Stator Condition

pass

25. Stator Thermistors/Ohms

26. Stator Overloads/Ohms

Mechanical Inspection



27. Drive End Bearing Brand

FAG

P12





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

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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	<div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; background-color: #808080; margin-right: 5px;"></div> Good </div>
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
53.	Coupling Fit Closest to Bearing Housing	
	0 Degrees	90 Degrees 120 Degrees
54.	Coupling Fit Closest to the end of the Shaft	
	0 Degrees	60 Degrees 120 Degrees

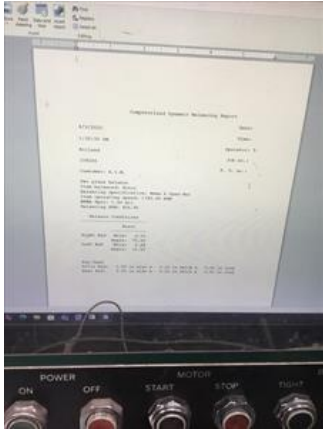
55.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	4.332	4.332	4.33
56.	Drive End Bearing Shaft Fit Condition		(P) Pass
57.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	3.5438	3.5437	3.5438
58.	Opposite Drive End Bearing Shaft Fit Condition		(P) Pass
59.	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 <i>None</i>		
67.	Technician		Terrence Holland
			
 Co sign: <i>RRW</i>			
Root Cause of Failure			
68.	Failure locations <i>None. See below.</i>		
69.	Root cause of failure <i>None. Motor recondition was requested by owning agency.</i>		
Dynamic Balance Report 			
70.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
 See below			

Drive End

Opposite Drive End

.10

.24

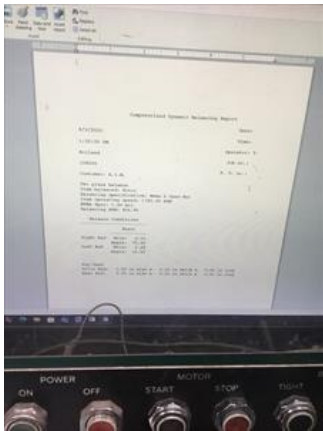


Drive End

Opposite Drive End

.10

.24



Terrence Holland

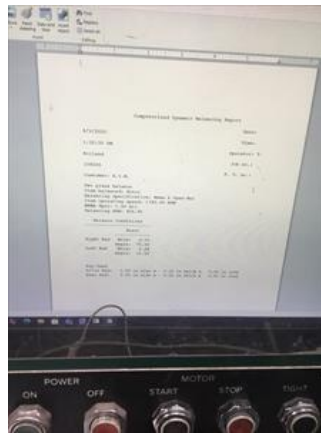
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Assembly





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75. Photograph All Major Components prior to assembly
See above

76. Final Insulation Resistance Test 34.96 Gigohms P31



77. Assembled Shaft Endplay 0 inches

78. Assembled Shaft Runout 0.002 inches

79. Test Run Voltage P55

Volts	Volts	Volts
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80. Test Run Amperage

P65

Amps

Amps

Amps



81. Drive End Vibration Readings - Inches Per Second

Horizontal

Vertical

Axial

0.04

0.05

0.04

82. Opposite Drive End Vibration Readings - Inches Per Second

Horizontal

Vertical

Axial

0.03

0.04

0.05

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

see below

87. Final Pics and QC Review

Terrence Holland

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