



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

FolderID: 104933
FormID: 25219783

AC Inspection - Rev. 2

Location: LR MOTOR SHOP

Serial Number: A1908092041

Description: 200 HP QUINCY COMPRESSOR
PREVENTATIVE MAINTENANCE

Hi-Speed Job Number: 104933

Manufacturer: Other

Spec/ID #: B640139

Serial Number: A1908092041

HP/kW: 200 (HP)

RPM: 1790 (RPM)

Frame: 447TSC

Voltage: 460

Current: 224

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.15

Enclosure: DP

of Leads: 6

J-box Included: Half

Coupling/Sheave: None

Date Received: 07/23/2025

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final

Rewind: No

**Shaft Machined Fit Repairs
Required:** No

**Bearing Housing Machined
Fit Repairs Required:** Yes

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found: ● 1 - High ● 9 - Good

Overall Condition



1. Report Date

07/23/2025

2. Nameplate Picture

P38

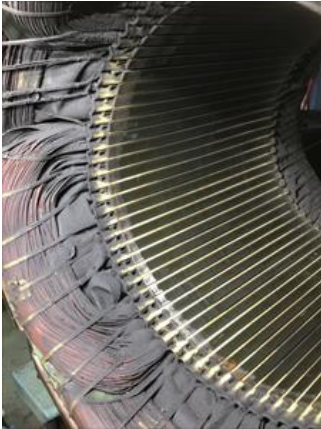


3. Photos of all six sides of the machine.

P46







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

P26



10. Assembled Shaft Runout **0.003 Inches**

11. Assembled Shaft End Play **0 inches**

12. Air Gap Variation <10%

13. Lead Condition **(P) Pass**

P71



14. Lead Length **12 Inches**

15. Does it have Lugs?, If so what is the Stud Size? **(YES) YES**

16. Lead Numbers **T1-T6**

P105

Connection: (1-6) (2-4) (3-5)



17. Are the Leads insulated with Chico or other material **(NO) NO**

18. Frame Condition **pass**

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19. Fan Condition	
20. Does motor have internal fan?	(NO) NO
21. Broken or Missing Components	none

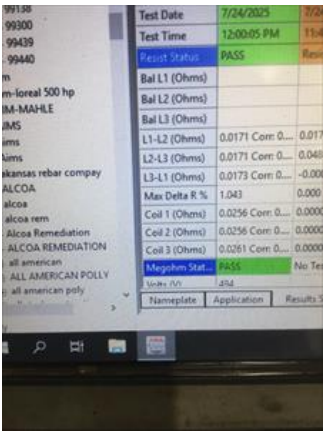
Initial Electrical Inspection



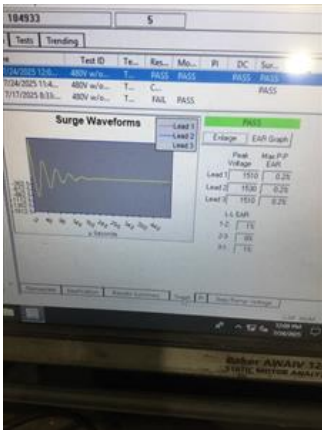
22. Insulation Resistance/Megger	7.25 Gigohms	P8
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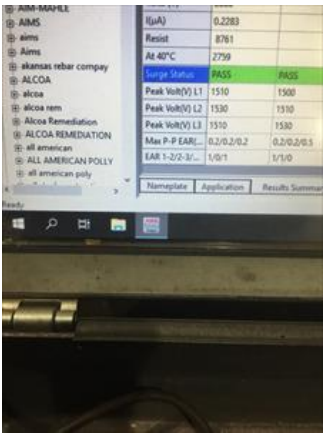
23. Winding Resistance			P16
1-2	1-3	2-3	
.0171	.0173	.0171	



24. Perform Surge Test	(P) Pass	P57
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25. Number of Stator Slots	72
26. Stator Condition	pass
27. Stator Thermistors/Ohms	
28. Stator Overloads/Ohms	
Mechanical Inspection	
29. Drive End Bearing Brand	nachi





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	replace
 Contaminated grease.	
37. Opposite Drive End Bearing Brand	nachi






39.	Opposite Drive End Bearing Qty.	1	
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?		
43.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer	P115




44.	Opposite Drive End Bearing Condition	replace
	Contaminated grease	
45.	Drive End Seal	
46.	Opposite Drive End Seal	

Rotor Inspection

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47. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast		
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) 6318 2Z/C3 bearings 1) 318 sleeve for ODE housing fit			
52. Signature of Technician that Disassembled Motor	Terrence Holland		
			
Mechanical Fits- Rotor			
53. Shaft Runout	0.003 inches		
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	
3.5437	3.5437	3.5437	
58. Drive End Bearing Shaft Fit Condition	(P) Pass		
59. Opposite Drive End Bearing Shaft Fit			
0 Degrees	60 Degrees	120 Degrees	
3.5436	3.5436	3.5435	
60. Opposite Drive End Bearing Shaft Fit Condition	(P) Pass		
61. Shaft Air Seal Fits			
Drive End Air Seal	Opposite Drive End Air Seal		
pass	pass		
Mechanical Fits- Bearing Housings			
62. Drive End - Endbell Bearing Fit			
0 Degrees	60 Degrees	120 Degrees	
7.4813	7.4812	7.4813	
63. Drive End - Endbell Bearing Fit Condition	(P) Pass		
64. Opposite Drive End - Endbell Bearing Fit			
0 Degrees	60 Degrees	120 Degrees	

 Fail

Excessive wear. Lip worn in housing.



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

pass

pass

68. List Machine Work Needed Below

Sleeve ODE housing fit.

69. Technician

Terrence Holland

Root Cause of Failure

70. Failure locations

ODE housing fit

71. Root cause of failure

Contaminated grease, and fluting

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

Rewind

76. THERMAL DETECTION EQUIPMENT FINAL TESTING -
RTD'S/KLIXONS/THERMISTORS

Mechanical Fits- Bearing Housings - Post Repair

77. Drive End - Endbell Bearing Fit Post Repair

0 Degrees

60 Degrees

120 Degrees

78. Opposite Drive End - Endbell Bearing Fit Post Repair

0 Degrees

60 Degrees

120 Degrees

79. Bearing Cap Condition Post Repair

Drive End Bearing Cap

Opposite Drive End Bearing Cap

80. End Bell Air Seal Fits Post Repair

Drive End Air Seal

Opposite Drive End Air Seal

81. End Bell Repair Sign-off

Assembly

82. QC Check All Parts for Cleanliness Prior to Assembly

83. Photograph All Major Components prior to assembly

84. Was a Insulated bearing or end bell tested?

85. Final Insulation Resistance Test

86. Assembled Shaft Endplay

87. Assembled Shaft Runout

88. Test Run Voltage

Volts

Volts

Volts

89. Test Run Amperage

Amps

Amps

Amps

90. Motor RPM

91. Drive End Vibration Readings - Inches Per Second

Horizontal

Vertical

Axial

92. Opposite Drive End Vibration Readings - Inches Per Second

Horizontal

Vertical

Axial

93. Ambient Temperature - Fahrenheit

94. Drive End Bearing Temps - Fahrenheit

5 Minutes

10 Minutes

15 Minutes

95. Opposite Drive End Bearing Temps - Fahrenheit

5 Minutes

10 Minutes

15 Minutes

96. Document Final Condition with Pictures after paint

97. Final Pics and QC Review