0



AC Inspection as Found ARKANSAS INDUSTRIAL MACHINERY

3804 N. NONA ST NORTH LITTLE ROCK, AR 72118 FolderID: 104724 FormID: 24783778

AC Inspection - Rev. 2		Hi-Speed Job Number:	104724
Location:	MOTOR SHOP LR	Serial Number:	6-24-25
Serial Number:		Phase:	Three
Description:75KW		Enclosure:	TEFC
		# of Leads:	6
		J-box Included:	Complete
		Coupling/Sheave:	None
		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

Priorities Found: 1 - High 15 - Good

Overall Condition

Bearing Type:

I. Report Date2. Nameplate Picture6/12/2025P37

Rolling Element



3. Photos of all six sides of the machine.

P45

















Received this way

4.	Describe the Overall Condition of the Equipment as Received
	Dirty but serviceable
5.	Is this a UL Listed Motor

5.	Is this a UL Listed Motor	(No) No
6.	Is the motor water cooled or can be pressure checked before teardown	(No) No

	6.	Is the motor water cooled or can be pressure checked before teardown	(No) No	
In	Initial Mechanical/Electrical			Ō
	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	
	10.	Assembled Shaft Runout	0 Inches	
	11.	Assembled Shaft End Play	0 inches	
	12.	Air Gap Variation <10%		
	13.	Lead Condition	(P) Pass	
	14.	Lead Length	Inches	
	15.	Does it have Lugs?, If so what is the Stud Size?	(Yes) Yes	
	16.	Lead Numbers	1-6	
	17.	Are the Leads insulated with Chico or other material	(No) No	
	18.	Frame Condition	pass	
	19.	Fan Condition	(P) Pass	P119



ı	Attended		
	20.	Does motor have internal fan?	(No) No

21. Broken or Missing Components

■ No

Initial Electrical Inspection



 22. Insulation Resistance/Megger
 7392 Megohms

 23. Winding Resistance
 1-2

 1-2
 1-3

 0.0204
 0.0207

 24. Perform Surge Test
 (F) Fail

| Name |

25. Number of Stator Slots 72

26. Stator Condition rewind .winding shorted internal







27. Stator Thermistors/Ohms 114.1 ohms

28. Stator Overloads/Ohms





31.	Drive End Bearing Qty.	1	
32.	Drive End Bearing Type	(Roller) Roller Bearing	
33.	Drive End Lubrication Type	(Oil) Oil Lubricated	
34.	Drive End Bearing Insulation or Grounding Device?	NA	
35.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	SNAP RING	
36	Drive End Bearing Condition	FI UTING	P83





37.	Opposite Drive End Bearing Brand	SKF	
38.	Opposite Drive End Bearing Number-	6215 ZZ C4	P101



Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

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?	na	
43.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	Snap ring	
44.	Opposite Drive End Bearing Condition	axial load and some frosting	P120



45. Drive End Seal **YES**

46. Opposite Drive End Seal NA

Rotor Inspection

0

(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast РЗ Rotor Type/Material



Growler Test (Pass) Pass 48.



50. Rotor Condition pass

51. List the Parts needed for the Repair Below 1-NU213C4 roller.bearing 2-6215 ZZ C4 bearing

52. Signature of Technician that Disassembled Motor

RW

Mecha	Mechanical Fits- Rotor			
53.	Shaft Runout		0.0004 inches	
54.	Rotor Runout			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
	0.0003	0.0005	0.0003	
55.	Coupling Fit Closest to Bearing H	ousing		
	0 Degrees	90 Degrees	120 Degrees	
	2.3631	2.3631	2.3631	
56.	Coupling Fit Closest to the end of	the Shaft		
	0 Degrees	60 Degrees	120 Degrees	
	3.3631	2.3631	2.3631	
57.	Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	2.5603	2.5603	2.5603	

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.



59.	Opposite Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
2 9533	2 9533	2 9533

Opposite Drive End Bearing Shaft Fit Condition

(P) Pass

P97



Shaft Air Seal Fits

Drive End Air Seal Opposite Drive End Air Seal

Pass

Mechanical Fits- Bearing Housings

0

Drive End - Endbell Bearing Fit

120 Degrees 0 Degrees 60 Degrees

4.7253 4.7249 4.7249



P15



0 Degrees	60 Degrees	120 Degrees
5.1186	5.1186	5.1186

65. Opposite Drive End - Endbell Bearing Fit Condition

(P) Pass

P39

P52



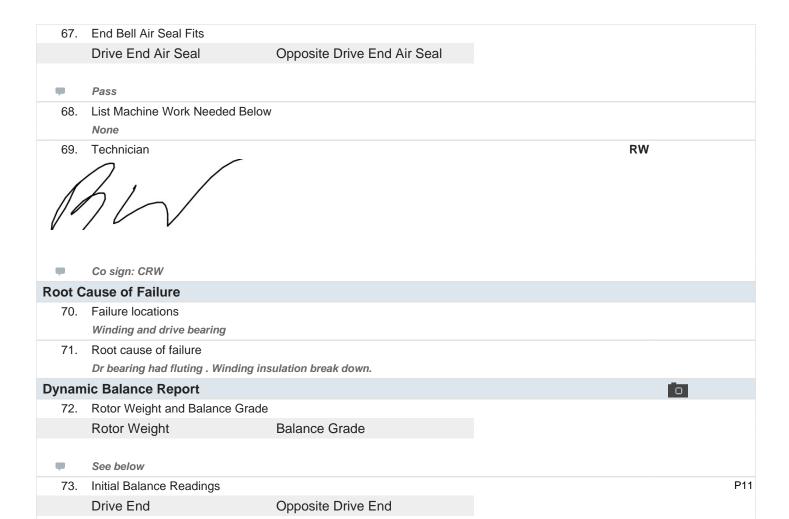
66. Bearing Cap Condition

Drive End Bearing Cap

Opposite Drive End Bearing Cap

pass







Drive End

Opposite Drive End

.12

.50



75. Technician Terrence Holland

Rewind

76. Core Test Results - Watts loss per Pound

Pre-Burnout Post Burnout

77. Core Hot Spot Test

Pre-Burnout Post-Burnout

- 78. Post Rewind Electrical Test- Insulation Resistance Megohms
- 79. Post Rewind Polarization Index Polarization Index
- 80. Post Rewind Winding Resistance

1-2 1-3 2-3

- 81. Post Rewind Surge Test
- 82. Post Rewind Hi-Pot micro-amps
- 83. Technician

Assembly

84. QC Check All Parts for Cleanliness Prior to Assembly

Terrence Holland

0

See below

85. Photograph All Major Components prior to assembly

P17













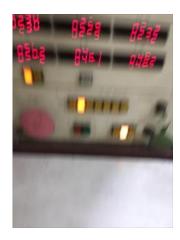




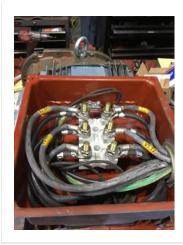








Picture taken by David Williams!



86. Final Insulation Resistance Test

Megohms

0 inches

P31

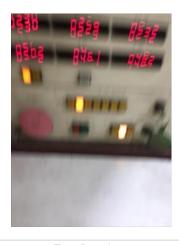


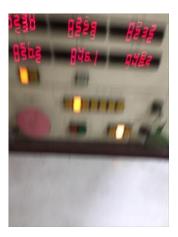
87. Assembled Shaft Endplay

88. Assembled Shaft Runout 0.001 inches

89. Test Run Voltage P55

Volts Volts Volts
230 229 232





Test Run Ampei	rage
----------------------------------	------

Amps	Amps	Amps
50.2	46.1	48.2

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.	l. Drive End Bearing Temps - Fahrenheit				
	5 Minutes	10 Minutes	15 Minutes		
95.	Opposite Drive End Bearing Ten	nps - Fahrenheit			
	5 Minutes	10 Minutes	15 Minutes		
96.	Document Final Condition with F	Pictures after paint			
-	See item below				
97.	Final Pics and QC Review		Terrence Holland	P135	
7	T				

Co sign: RW









