



## AC Inspection as Found

American Kraft Paper

1701 Jefferson Parkway

White Hall, AR 71602

FolderID: 104811

FormID: 24949741

### AC Inspection - Rev. 2

Location: MOTOR SHOP LR

Serial Number: JA8356949

Description: 350 HP GENERAL ELECTRIC

Hi-Speed Job Number: 104811

Manufacturer: GE

Product Number: 5K826630A9

Serial Number: JA8356949

HP/kW: 350 (HP)

RPM: 880 (RPM)

Frame: 8266S

Voltage: 2300

Current: 87 (Amps)

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.15

# of Leads: 3

J-box Included: None

Coupling/Sheave: None

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final

Rewind: No

Shaft Machined Fit Repairs  
Required: Yes

Bearing Housing Machined  
Fit Repairs Required: Yes

Winding Type : Form Coil

Bearing Type: Rolling Element

Priorities Found: ● 3 - High

● 8 - Good

### Overall Condition



1. Report Date

06/30/2025

2. Nameplate Picture

P37



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4.	Describe the Overall Condition of the Equipment as Received	
	<i>Dirty but 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		
7.	Does Shaft Turn Freely?	(Y) Yes
8.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(YES) YES
9.	Does Shaft Have Visible Damage?	(No) No
10.	Assembled Shaft Runout	Inches
	<i>Unable to perform due to DE bearing journal out of tolerance</i>	
11.	Assembled Shaft End Play	0 inches

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12. Air Gap Variation <10%

13. Lead Condition

(P) Pass

P70



14. Lead Length

21 Inches

15. Does it have Lugs?, If so what is the Stud Size?

(YES) YES

16. Lead Numbers

1-3

17. Are the Leads insulated with Chico or other material

(NO) NO

18. Frame Condition

pass

19. Fan Condition

(N) NA

20. Does motor have internal fan?

(NO) NO

21. Heater Quantity, Ratings

Quantity

Volts/Watts

Pass/Fail

22. Broken or Missing Components

connection box missing

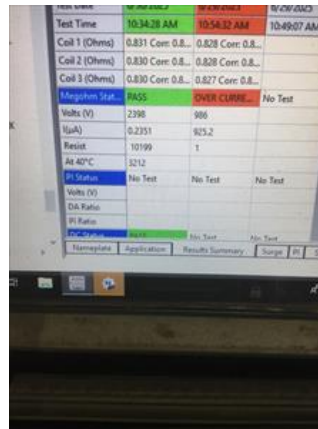
### Initial Electrical Inspection



23. Insulation Resistance/Megger

Megohms

P8



1-2

1-3

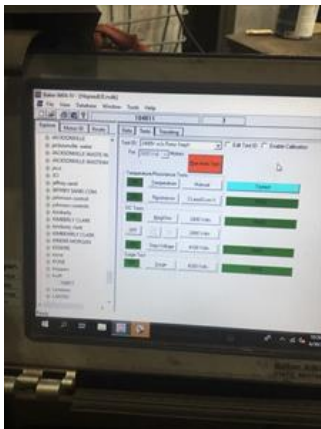
2-3

Test Date	6/30/2025	6/29/2025
Test Time	10:34:28 AM	10:54:32 AM
IR Temp Com...	Thermoplastic	Thermoplas
Resist Status	PASS	PASS
Bal L1 (Ohms)		
Bal L2 (Ohms)		
Bal L3 (Ohms)		
L1-L2 (Ohms)	0.554 Corr 0.5...	0.552 Corr 0.5...
L2-L3 (Ohms)	0.554 Corr 0.5...	0.552 Corr 0.5...
L3-L1 (Ohms)	0.554 Corr 0.5...	0.552 Corr 0.5...
Max Delta R %	0.078	0.078
Cold 1 (Ohms)	0.831 Corr 0.8...	0.828 Corr 0.8...
Cold 2 (Ohms)	0.830 Corr 0.8...	0.828 Corr 0.8...
Cold 3 (Ohms)	0.830 Corr 0.8...	0.827 Corr 0.8...

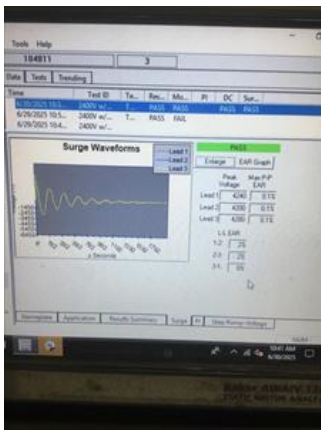
## 25. Perform Surge Test

(P) Pass

P59



I(μA)	0.3396
Resist	12075
At 40°C	3803
Surge Status	PASS No Test
Peak Volt(V) L1	4240
Peak Volt(V) L2	4200
Peak Volt(V) L3	4280
Max P-P EAR[...	0.1/0.1/0.1
EAR 1-2/2-3/...	2/2/0



## 26. Number of Stator Slots

94

## 27. Stator Condition

pass

## 28. Stator Thermistors/Ohms

## 29. Stator Overloads/Ohms

## Mechanical Inspection

## 30. Drive End Bearing Brand

FAG

## 31. Drive End Bearing Number-

6319 2Z

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32. Drive End Bearing Qty.	1	
33. Drive End Bearing Type	(Ball) Ball Bearing	P50
		
34. Drive End Lubrication Type	(Grease) Grease Lubricated	
35. Drive End Bearing Insulation or Grounding Device?	none	
36. Drive End Wavy Washer/Snap-Ring Other Retention Device?	none	
37. Drive End Bearing Condition	filled with contaminated grease	P82
  		
38. Opposite Drive End Bearing Brand	FAG	
39. Opposite Drive End Bearing Number-	6319	
40. Opposite Drive End Bearing Qty.	1	
41. Opposite Drive End Bearing Type	(Ball) Ball Bearing	P108

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42. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
43. Opposite Drive End Bearing Insulation or Grounding Device?	none
44. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	none
45. Opposite Drive End Bearing Condition	filled with contaminated grease
46. Drive End Seal	
47. Opposite Drive End Seal	

#### Rotor Inspection



48. Rotor Type/Material	(Aluminum Bar) Aluminum Barred Rotor
49. Growler Test	(Pass) Pass
50. Number of Rotor Bars	118
51. Rotor Condition	pass

P40



52. List the Parts needed for the Repair Below  
2) 63192Z/C3

53. Signature of Technician that Disassembled Motor

Terrence Holland

#### Mechanical Fits- Rotor



54.	Shaft Runout		inches
	Unable to perform due o bad shaft journal.		
55.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
56.	Coupling Fit Closest to Bearing Housing		
	0 Degrees	90 Degrees	120 Degrees
57.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
58.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	3.7393	3.7394	3.7395
59.	Drive End Bearing Shaft Fit Condition		(F) Fail
60.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	3.7402	3.7403	3.7404
61.	Opposite Drive End Bearing Shaft Fit Condition		(P) Pass
62.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
<b>Mechanical Fits- Bearing Housings</b>			
63.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	7.8755	7.8756	7.8754
64.	Drive End - Endbell Bearing Fit Condition		(F) Fail
65.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	7.8755	7.8755	7.8757
66.	Opposite Drive End - Endbell Bearing Fit Condition		(F) Fail
67.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	pass	pass	
68.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
69.	List Machine Work Needed Below Sleeve both end bell housing fits. Repair DE shaft bearing journal		
70.	Technician		Terrence Holland
			
	Co-sign: DM		
<b>Root Cause of Failure</b>			

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## 71. Failure locations

*Both bearings filled with water logged contaminated grease.  
DE end shaft bearing journal way out of tolerance.  
Stator megged low. Placed in oven to re-evaluate.*

## 72. Root cause of failure

*Water contamination in stator and bearings.*

## Dynamic Balance Report



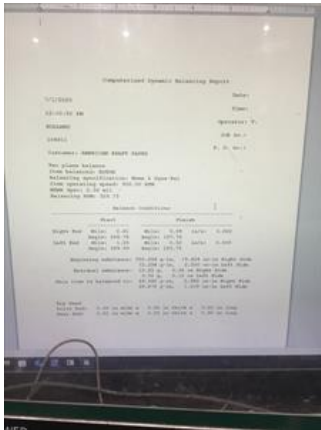
## 73. Rotor Weight and Balance Grade

Rotor Weight	Balance Grade

## 74. Initial Balance Readings

P11

Drive End	Opposite Drive End
.61	1.25



## 75. Final Balance Readings

P27

Drive End	Opposite Drive End
.09	.50



## 76. Technician

Terrence Holland

## Rewind

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

**Mechanical Fits- Rotor - Post Repair**



78. Shaft Runout Post Repair **inches**

79. Rotor Runout Post Repair

Drive End Bearing Fit Rotor Body Opposite Drive End Bearing

80. Coupling Fit Closest to Bearing Housing Post Repair

0 Degrees 90 Degrees 120 Degrees

81. Coupling Fit Closest to the end of the Shaft Post Repair

0 Degrees 60 Degrees 120 Degrees

82. Drive End Bearing Shaft Fit Post Repair

P49

0 Degrees 60 Degrees 120 Degrees

**3.741**

**3.7409**

**3.7409**



83. Opposite Drive End Bearing Shaft Fit Post Repair

0 Degrees 60 Degrees 120 Degrees

84. Shaft Air Seal Fits Post Repair




Drive End Air Seal Opposite Drive End Air Seal

85. Shaft Repair Sign-off

**Gary**

**Mechanical Fits- Bearing Housings - Post Repair**

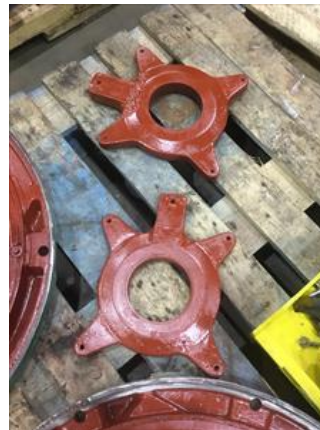
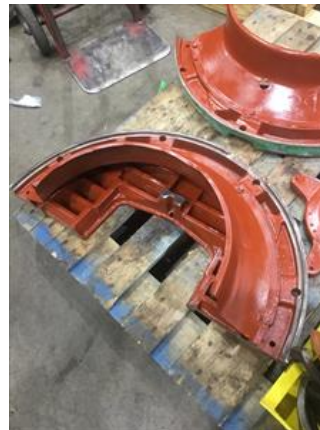


86.	Drive End - Endbell Bearing Fit Post Repair			P5
	0 Degrees	60 Degrees	120 Degrees	
	7.8745	7.8745	7.8745	
				
87.	Opposite Drive End - Endbell Bearing Fit Post Repair			P19
	0 Degrees	60 Degrees	120 Degrees	
	7.8751	7.8751	7.8751	
				
88.	Bearing Cap Condition Post Repair			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
89.	End Bell Air Seal Fits Post Repair			
	Drive End Air Seal	Opposite Drive End Air Seal		
90.	End Bell Repair Sign-off			Gary
、				
Assembly 				





See item elow







93.	Was a Insulated bearing or end bell tested?	(P) Pass		
94.	Final Insulation Resistance Test	10 Gigohms		
95.	Assembled Shaft Endplay	0 inches		
96.	Assembled Shaft Runout	0.002 inches		
97.	Test Run Voltage			P54
	Volts	Volts	Volts	



98.	Test Run Amperage				P65
	Amps	Amps	Amps		



99.	Motor RPM	899.4		
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100. Drive End Vibration Readings - Inches Per Second			
Horizontal		Vertical	Axial
0.03		0.03	0.05
101. Opposite Drive End Vibration Readings - Inches Per Second			
Horizontal		Vertical	Axial
0.03		0.02	0.04
102. Ambient Temperature - Fahrenheit			
103. Drive End Bearing Temps - Fahrenheit			
5 Minutes		10 Minutes	15 Minutes
104. Opposite Drive End Bearing Temps - Fahrenheit			
5 Minutes		10 Minutes	15 Minutes
105. Stator Temperatures- Fahrenheit			
5 Minutes		10 Minutes	15 Minutes
106. Document Final Condition with Pictures after paint		see item below	
107. Final Pics and QC Review		Terrnce Holland	
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