



AC Inspection as Found

Twin Rivers

1701 Jefferson Parkway
White Hall, AR 71602

FolderID: 101591
FormID: 17262604

AC Inspection - Rev. 2

Location: MOTOR SHOP LR

Serial Number: 104911

Description: 350HP GE 900RPM 8266/8288S

Hi-Speed Job Number: 101591

Manufacturer: GE

Serial Number: 104911

HP/kW: 350 (HP)

RPM: 885 (RPM)

Frame: 8266/8288S

Voltage: 2300

Current: 85

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.15

Enclosure: ODP

J-box Included: Complete

Repair Stage: Final

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found: ● 2 - High ● 6 - Good

Overall Condition



1. Report Date

2. Nameplate Picture

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3. Photos of all six sides of the machine.

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

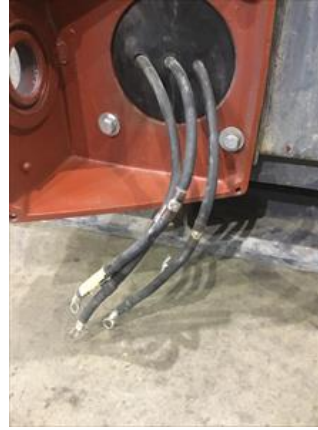
5. Distance from the end of the shaft to the Coupling/Sheave

Initial Mechanical/Electrical



6.	Does Shaft Turn Freely?	(Yes) Yes
7.	Does Shaft Have Visible Damage?	(No) No
8.	Assembled Shaft Runout	0.002 Inches
9.	Assembled Shaft End Play	
10.	Air Gap Variation <10%	

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12. Lead Length **17.5 Inches**

13. Lead Numbers **1-3**

14. Stator Temperature Detector Rating and Function

Quantity	Rating	Quantity Passed
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15. Bearing Temperature Detector Rating and Function

Quantity	Rating	Quantity Passed
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None

16. Frame Condition **pass**

17. Fan Condition **(N) NA**

18. Broken or Missing Components **none**

Initial Electrical Inspection



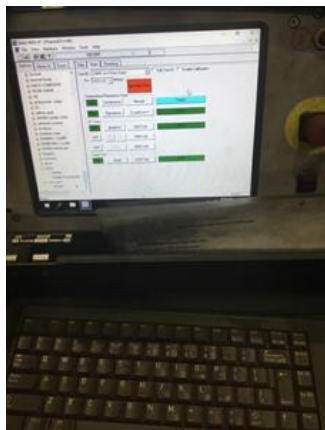
19. Insulation Resistance/Megger **Megohms**

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20. Winding Resistance

1-2	1-3	2-3
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22. Number of Stator Slots	72 Megohms
23. Stator Condition	dirty
24. Stator Thermistors/Ohms	none
25. Stator Overloads/Ohms	none

Mechanical Inspection

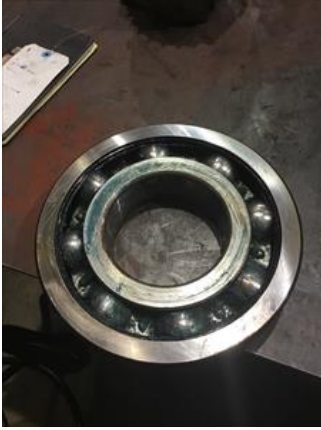
26. Drive End Bearing Brand	NTN
27. Drive End Bearing Number-	6324 C3

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28. Drive End Bearing Qty.

1



30. Drive End Lubrication Type

(Grease) Grease Lubricated

31. Drive End Bearing Insulation or Grounding Device?

none

32. Drive End Wavy Washer/Snap-Ring Other Retention Device?

star washer & locking ring

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33. Drive End Bearing Condition

replace

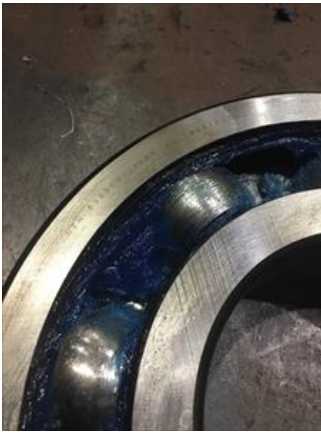
34. Opposite Drive End Bearing Brand

NTN

35. Opposite Drive End Bearing Number-

6322 C3

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36. Opposite Drive End Bearing Qty.

1

37. Opposite Drive End Bearing Type

(Ball) Ball Bearing

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38. Opposite Drive End Lubrication Type

(Grease) Grease Lubricated

39. Opposite Drive End Bearing Insulation or Grounding Device?

none



- | | |
|--|----------------|
| 41. Opposite Drive End Bearing Condition | replace |
| 42. Drive End Seal | one |
| 43. Opposite Drive End Seal | |

Rotor Inspection

- | | |
|---|--|
| 44. Rotor Type/Material | (Copper Barred) Copper Barred Rotor |
| 45. Growler Test | |
| 46. Number of Rotor Bars | 86 |
| 47. Rotor Condition | pass |
| 48. List the Parts needed for the Repair Below | |
| 49. Signature of Technician that Disassembled Motor | Terrence Holland |

Mechanical Fits- Rotor

- | | | |
|--|------------|----------------------------|
| 50. Shaft Runout | | |
| 51. Rotor Runout | | |
| Drive End Bearing Fit | Rotor Body | Opposite Drive End Bearing |
| 52. Coupling Fit Closest to Bearing Housing | | |
| 0 Degrees | 90 Degrees | 120 Degrees |
| 53. Coupling Fit Closest to the end of the Shaft | | |
| 0 Degrees | 60 Degrees | 120 Degrees |

54. Drive End Bearing Shaft Fit

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0 Degrees	60 Degrees	120 Degrees
4.7244	4.7251	

 Lip worn in



55. Drive End Bearing Shaft Fit Condition

(F) Fail

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56. Opposite Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
4.3311	4.3312	4.331

57. Opposite Drive End Bearing Shaft Fit Condition

(P) Pass

58. Shaft Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal
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Mechanical Fits- Bearing Housings




59. Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees
10.2373	10.2375	10.2376



61.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	9.449199999999999	9.4491	9.449299999999999
62.	Opposite Drive End - Endbell Bearing Fit Condition		(P) Pass
63.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	pass	pass	



64.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
65.	List Machine Work Needed Below <i>D.E. Shaft fit bad. Has lip worn in. D.E housing fit has excessive pitting.</i>		
66.	Technician		Terrence Holland
			
Dynamic Balance Report			
67.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
68.	Initial Balance Readings		
	Drive End	Opposite Drive End	
69.	Final Balance Readings		
	Drive End	Opposite Drive End	
70.	Technician		
Rewind			
71.	Core Test Results - Watts loss per Pound		
	Pre-Burnout	Post Burnout	
72.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
73.	Post Rewind Electrical Test- Insulation Resistance		
74.	Post Rewind Polarization Index		
75.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
76.	Post Rewind Surge Test		
77.	Post Rewind Hi-Pot		
78.	Technician		
Root Cause of Failure			
79.	Failure locations		
80.	Root cause of failure		
Mechanical Fits- Rotor - Post Repair			
81.	Shaft Runout Post Repair		
82.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing

83.	Coupling Fit Closest to Bearing Housing Post Repair		
	0 Degrees	90 Degrees	120 Degrees
84.	Coupling Fit Closest to the end of the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees
85.	Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
86.	Opposite Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
87.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
88.	Shaft Repair Sign-off		
Mechanical Fits- Bearing Housings - Post Repair			
89.	Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
90.	Opposite Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
91.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
92.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
93.	End Bell Repair Sign-off		
Assembly			
94.	QC Check All Parts for Cleanliness Prior to Assembly		
95.	Photograph All Major Components prior to assembly		
96.	Final Insulation Resistance Test		
97.	Assembled Shaft Endplay		
98.	Assembled Shaft Runout		
99.	Test Run Voltage		
	Volts	Volts	Volts
100.	Test Run Amperage		
	Amps	Amps	Amps
101.	Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial

102. Opposite Drive End Vibration Readings - Inches Per Second			
	Horizontal	Vertical	Axial
103. Ambient Temperature - Fahrenheit			
104. Drive End Bearing Temps - Fahrenheit			
	5 Minutes	10 Minutes	15 Minutes
105. Opposite Drive End Bearing Temps - Fahrenheit			
	5 Minutes	10 Minutes	15 Minutes
106. Document Final Condition with Pictures after paint			
107. Final Pics and QC Review			