



## AC Recondition As Found

Kroger

20820 interstate 30 N  
Benton, AR 72019

FolderID: 99958  
FormID: 13897589

### AC Recondition - Rev. 2

Location: Motor Shop

Serial Number: 32-12-200A 5C

Description: 3HP ILG INDUSTRIES 900RPM 30  
FRAME

Hi-Speed Job Number: 99958

Manufacturer: Other

Product Number: 99958

Serial Number: 32-12-200A 5C

HP/kW: 3 (HP)

RPM: 855 (RPM)

Frame: 30

Voltage: 220-240

Current: 18

Phase: Three

Hz: 60 (Hz)

Enclosure: TENV

J-box Included: None

Coupling/Sheave: None

Date Received: 06/22/2022

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Teardown Inspection

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found: ● 3 - High

● 1 - Good

### Overall Condition



1. Report Date
2. Nameplate Picture

P34







3. Describe the Overall Condition of the Equipment as Received

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

### Initial Mechanical/Electrical



5. Does Shaft Turn Freely?

(Yes) Yes

6. Does Shaft Have Visible Damage?

(No) No

P20



7. Assembled Shaft Runout

8. Assembled Shaft End Play

9. Air Gap Variation <10%

10. Lead Condition







P55



11. Lead Length

13 Inches

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12. Stator Temperature Detector Rating and Function		
Quantity	Rating	Quantity Passed
13. Bearing Temperature Detector Rating and Function		
Quantity	Rating	Quantity Passed
14. Frame Condition		
15. Fan Condition		(N) NA
16. Heater Quantity, Ratings		
Quantity	Volts/Watts	Pass/Fail
17. Broken or Missing Components		
Initial Electrical Inspection		
18. Insulation Resistance/Megger		
19. Winding Resistance		
1-2	1-3	2-3
20. Perform Surge Test		(F) Fail
 Shorted in slot		
21. Stator Condition		P69
<div style="display: flex; justify-content: space-around;">   </div>		
Mechanical Inspection		
22. Drive End Bearing Number-		6208 P16
		
23. Drive End Bearing Qty.		1

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24. Drive End Bearing Type	(Ball) Ball Bearing	
25. Drive End Lubrication Type	(Grease) Grease Lubricated	
26. Drive End Bearing Insulation or Grounding Device?	none	
27. Drive End Wavy Washer/Snap-Ring Other Retention Device?	none	
28. Drive End Bearing Condition	dirty	
29. Opposite Drive End Bearing Number-	6206	P87




30. Opposite Drive End Bearing Qty.	1	
31. Opposite Drive End Bearing Type	(Ball) Ball Bearing	
32. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
33. Opposite Drive End Bearing Insulation or Grounding Device?	none	
34. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	broken	P106



35. Opposite Drive End Bearing Condition	dirty	
36. Drive End Seal	none	
37. Opposite Drive End Seal	none	
38. DE Sleeve Bearing Inside Diameter		
0 degrees	120 degrees	240 degrees
39. DE Sleeve Bearing Outside Diameter		
0 degrees	120 degrees	240 degrees
40. DE Sleeve Bearing Housing Inside Diameter		
0 degrees	120 degrees	240 degrees

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41. DE Sleeve Bearing to Housing Clearance	0 degrees	120 degrees	240 degrees
42. ODE Sleeve Bearing Inside Diameter	0 degrees	120 degrees	240 degrees
43. ODE Sleeve Bearing Outside Diameter	0 degrees	120 degrees	240 degrees
44. ODE Sleeve Bearing Housing Inside Diameter	0 degrees	120 degrees	240 degrees
45. ODE Sleeve Bearing to Housing Clearance	0 degrees	120 degrees	240 degrees
<b>Rotor Inspection</b>			
46. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast		P3
			
47. Growler Test	(Pass) Pass		
48. Number of Rotor Bars			
49. Rotor Condition	pass		
50. List the Parts needed for the Repair Below			
51. Signature of Technician that Disassembled Motor	Terrence. Holland		
			
<b>Mechanical Fits- Rotor</b>			
52. Shaft Runout			
53. Rotor Runout			
Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	

54.	Coupling Fit Closest to Bearing Housing		
	0 Degrees	90 Degrees	120 Degrees
55.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
56.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
57.	Drive End Bearing Shaft Fit Condition		
58.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
59.	Opposite Drive End Bearing Shaft Fit Condition		
60.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
<b>Mechanical Fits- Bearing Housings</b>			
61.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	<div>Excessive bearing play in housing.</div>		
62.	Drive End - Endbell Bearing Fit Condition		(F) Fail
63.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
64.	Opposite Drive End - Endbell Bearing Fit Condition		(F) Fail
	<div>Lip worn in fit</div>		
65.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
66.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
67.	List Machine Work Needed Below		
	D.e & O.d.e housing fits bad. Ode shaft bearing journal measures too small.		
68.	Technician		Terrence. Holland
			
<b>Dynamic Balance Report</b>			
69.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	

70.	Initial Balance Readings		
	Drive End	Opposite Drive End	
71.	Final Balance Readings		
	Drive End	Opposite Drive End	
72.	Technician		
<b>Rewind</b>			
73.	Core Test Results - Watts loss per Pound		
	Pre-Burnout	Post Burnout	
74.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
75.	Post Rewind Electrical Test- Insulation Resistance		
76.	Post Rewind Polarization Index		
77.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
78.	Post Rewind Surge Test		
79.	Post Rewind Hi-Pot		
80.	Technician		
<b>Root Cause of Failure</b>			
81.	Failure locations		
82.	Root cause of failure		
<b>Mechanical Fits- Rotor - Post Repair</b>			
83.	Shaft Runout Post Repair		
84.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
85.	Coupling Fit Closest to Bearing Housing Post Repair		
	0 Degrees	90 Degrees	120 Degrees
86.	Coupling Fit Closest to the end of the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees
87.	Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
88.	Opposite Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
89.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
90.	Shaft Repair Sign-off		
<b>Mechanical Fits- Bearing Housings - Post Repair</b>			

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91.	Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
92.	Opposite Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
93.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
94.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
95.	DE Sleeve Bearing Inside ID Post Repair		
	Measure 1	Measure 2	Measure 3
96.	DE Sleeve Bearing Outside ID Post Repair		
	Measure 1	Measure 2	Measure 3
97.	DE Sleeve Bearing Inside OD Post Repair		
	Measure 1	Measure 2	Measure 3
98.	DE Sleeve Bearing Outside OD Post Repair		
	Measure 1	Measure 2	Measure 3
99.	End Bell Repair Sign-off		
100.	ODE Sleeve Bearing Inside ID Post Repair		
	Measure 1	Measure 2	Measure 3
101.	ODE Sleeve Bearing Outside ID Post Repair		
	Measure 1	Measure 2	Measure 3
102.	ODE Sleeve Bearing Inside OD Post Repair		
	Measure 1	Measure 2	Measure 3
103.	ODE Sleeve Bearing Outside OD Post Repair		
	Measure 1	Measure 2	Measure 3
Assembly			
104.	Photograph All Major Components prior to assembly		
105.	Final Insulation Resistance Test		
106.	Assembled Shaft Endplay		
107.	Assembled Shaft Runout		
108.	Test Run Voltage		
	Volts	Volts	Volts

109. Test Run Amperage			
Amps	Amps	Amps	
110. Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical	Axial	
111. Opposite Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical	Axial	
112. Ambient Temperature - Fahrenheit			
113. Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
114. Drive End Bearing Temps - Fahrenheit 20-30 Minutes			
20 Minutes	25 Minutes	30 Minutes	
115. Drive End Bearing Temps - Fahrenheit 35-45 Minutes			
35 Minutes	40 Minutes	45 Minutes	
116. Drive End Bearing Temps - Fahrenheit 50-60 Minutes			
50 Minutes	55 Minutes	60 Minutes	
117. Opposite Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
118. Opposite Drive End Bearing Temps - Fahrenheit 20-30 Minutes			
20 Minutes	25 Minutes	30 Minutes	
119. Opposite Drive End Bearing Temps - Fahrenheit 35-45 Minutes			
35 Minutes	40 Minutes	45 Minutes	
120. Opposite Drive End Bearing Temps - Fahrenheit 50-60 Minutes			
50 Minutes	55 Minutes	60 Minutes	
121. Stator Temperatures- Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
122. Stator Temperatures- Fahrenheit 20-30 Minutes			
20 Minutes	25 Minutes	30 Minutes	
123. Stator Temperatures- Fahrenheit 35-45 Minutes			
35 Minutes	40 Minutes	45 Minutes	
124. Stator Temperatures- Fahrenheit 50-60 Minutes			
50 Minutes	55 Minutes	60 Minutes	
125. Final Test Run Sign-off			

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126. Document Final Condition with Pictures after paint
127. Final Pics and QC Review