

# EVERY DAY SINCE 1946

LR Motor Shop Repairs

## Job Number 104123

Prepared for Process & Power

1625 East 145th Street Little Rock AR 72206

### Table of Contents

AC Inspection as Found - MOTOR SHOP LR



#### **AC Inspection as Found**

Process & Power 1625 East 145th Street Little Rock, AR 72206

#### AC Inspection - Rev. 2

Location:	MOTOR SHOP LR
Serial Number:	733926/002

Description:250 HP INGERSOLL RAND

Manufacturer:Ingersoll-RandProduct Number:23271000Serial Number:133926/002HP/kW:250 (HP)RPM:2680 (RPM)Voltage:460Phase:ThreeHz:60 (Hz)Service Factor:1.21# of Leads:OtherJ-box Included:CompleteCoupling/Sheave:NoneBearing RTDs:NoStator RTDs:NoRepair Stage:FinalRewind:NoShaft Machined Fit Repairs Required:NoBearing Housing Machined Fit Repairs Required:NoWinding Type :Random Wound	Hi-Speed Job Number:	104123
Serial Number:133926/002HP/kW:250 (HP)RPM:2680 (RPM)Voltage:460Phase:ThreeHz:60 (Hz)Service Factor:1.21# of Leads:OtherJ-box Included:CompleteCoupling/Sheave:NoneBearing RTDs:NoStator RTDs:NoRepair Stage:FinalRewind:NoShaft Machined Fit RepairsNoBearing Housing MachinedNoFit Repairs Required:NoHeaters:No	Manufacturer:	Ingersoll-Rand
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Service Factor:1.21# of Leads:OtherJ-box Included:CompleteCoupling/Sheave:NoneBearing RTDs:NoStator RTDs:NoRepair Stage:FinalRewind:NoShaft Machined Fit RepairsNoShaft Machined Fit RepairsNoBearing Housing Machined Fit Repairs Required:NoHeaters:No	Phase:	Three
# of Leads:OtherJ-box Included:CompleteCoupling/Sheave:NoneBearing RTDs:NoStator RTDs:NoRepair Stage:FinalRewind:NoShaft Machined Fit RepairsNoRequired:NoBearing Housing MachinedNoFit Repairs Required:NoHeaters:No	Hz:	60 (Hz)
J-box Included:CompleteCoupling/Sheave:NoneBearing RTDs:NoStator RTDs:NoRepair Stage:FinalRewind:NoShaft Machined Fit RepairsNoShaft Machined Fit RepairsNoBearing Housing MachinedNoFit Repairs Required:NoHeaters:No	Service Factor:	1.21
Coupling/Sheave:NoneBearing RTDs:NoStator RTDs:NoRepair Stage:FinalRewind:NoShaft Machined Fit RepairsNoBearing Housing MachinedNoFit Repairs Required:NoHeaters:No	# of Leads:	Other
Bearing RTDs:     No       Stator RTDs:     No       Repair Stage:     Final       Rewind:     No       Shaft Machined Fit Repairs     No       Required:     Bearing Housing Machined       Bearing Housing Machined     No       Fit Repairs Required:     No	J-box Included:	Complete
Stator RTDs:       No         Repair Stage:       Final         Rewind:       No         Shaft Machined Fit Repairs       No         Required:       Bearing Housing Machined         Bearing Housing Machined       No         Fit Repairs Required:       No         Heaters:       No	Coupling/Sheave:	None
Repair Stage:     Final       Rewind:     No       Shaft Machined Fit Repairs     No       Required:     Bearing Housing Machined       Bearing Housing Machined     No       Fit Repairs Required:     Heaters:	Bearing RTDs:	No
Rewind:     No       Shaft Machined Fit Repairs     No       Required:     Bearing Housing Machined       Fit Repairs Required:     No       Heaters:     No	Stator RTDs:	No
Shaft Machined Fit Repairs     No       Required:     Bearing Housing Machined       Bearing Housing Machined     No       Fit Repairs Required:     Heaters:	Repair Stage:	Final
Required:         Bearing Housing Machined No         Fit Repairs Required:         Heaters:       No	Rewind:	No
Fit Repairs Required:       Heaters:     No		No
		No
Winding Type :     Random Wound	Heaters:	No
	Winding Type :	Random Wound
Bearing Type: Rolling Element	Bearing Type:	Rolling Element

#### Priorities Found: **10 - Good**

#### **Overall Condition**

1. Report Date

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Hi-Speed Industrial Service 7030 Ryburn Dr Millington, Tn 38053 901-873-5300

> FolderID: 104123 FormID: 23343949

#### 2. Nameplate Picture



3. Photos of all six sides of the machine.



















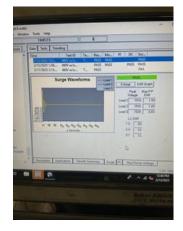






4.	Describe the Overall Condition of the	Equipment as Received			
	Serviceable				
Initia	Initial Mechanical/Electrical				
5.	Does Shaft Turn Freely?		(Y) Yes		
6.	Does the shaft require T.I.R in Lathe t	o identify additional repairs?	(No) No		
7.	Does Shaft Have Visible Damage?		(No) No		
8.	Assembled Shaft Runout		Inches		
•	Na				
9.	Assembled Shaft End Play		inches		
-	Na				
10	. Air Gap Variation <10%		na		
• 11	. Lead Condition		(P) Pass		
12	. Lead Length		60 Inches		
• 13	. Does it have Lugs?, If so what is the S	Stud Size?	(Yes) Yes		
14	. Lead Numbers		1-2-3. 1-2-3		
15	. Frame Condition		pass		
16	. Fan Condition		(N) NA		
17	. Does motor have internal fan?		(No) No		
18	. Broken or Missing Components				
	Na				
Initia	I Electrical Inspection				
19	. Insulation Resistance/Megger		6690 Megohms		
20	. Winding Resistance				
	1-2	1-3	2-3		
	0.00552	0.00553	0.00550		

wash and dry



- 22. Number of Stator Slots
- 🗭 Na
- 23. Stator Condition



 24. Stator Thermistors/Ohms
 na

 25. Stator Overloads/Ohms
 na

 Mechanical Inspection
 26. Drive End Bearing Brand
 KOYO

 27. Drive End Bearing Number NU320R



- 28.Drive End Bearing Qty.129.Drive End Bearing Type(Roller) Roller Bearing30.Drive End Lubrication Type(Grease) Grease Lubricated31.Drive End Bearing Insulation or Grounding Device?na32.Drive End Wavy Washer/Snap-Ring Other Retention Device?Wavy washer
  - 33. Drive End Bearing Condition

dry grease and contaminate



34. Opposite Drive End Bearing Brand	КОҮО
35. Opposite Drive End Bearing Number-	6320ZZxC3
36. Opposite Drive End Bearing Qty.	1
37. Opposite Drive End Bearing Type	(Ball) Ball Bearing
38. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
39. Opposite Drive End Bearing Insulation or Grounding Device?	shaft insulation
40. Opposite Drive End Wavy Washer/Snap-Ring Other Retention De	evice? snap ring
41. Opposite Drive End Bearing Condition	

Normal wear



42. Drive End Seal

110-130-12



43. Opposite Drive End Seal

#### **Rotor Inspection**

- 44. Rotor Type/Material
- Magnet



45.	Growler Test		
	Na		
46.	Number of Rotor Bars		
	Na		
47.	Rotor Condition		pass
48.	List the Parts needed for the Repair B	elow	
	NU 320 6320 bearing		
49.	Signature of Technician that Disassem	nbled Motor	RW
U	AN		
Mecha	anical Fits- Rotor		
50.	Shaft Runout		0 inches
51.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
	0		

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na

52.	Coupling Fit Closest to Bearing Housi	ng		
	0 Degrees	90 Degrees	120 Degrees	
-	Na			
53.	Coupling Fit Closest to the end of the	Shaft		
	0 Degrees	60 Degrees	120 Degrees	
-	Na			
54.	Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	3.9382	3.9382	3.9382	
55.	Drive End Bearing Shaft Fit Condition			(P) Pass



57.	Opposite Drive End Bearing Shaft Fit	Condition		(P) Pass
	3.9377	3.9377	3.9377	
	0 Degrees	60 Degrees	120 Degrees	
56	Opposite Drive End Bearing Shaft Fit			

57. Opposite Drive End Bearing Shaft Fit Condition



58. Shaft Air Seal Fits Opposite Drive End Air Seal Drive End Air Seal Pass 

#### **Mechanical Fits- Bearing Housings**

59.	Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	8.4655	8.4655	8.4655	
60.	Drive End - Endbell Bearing Fit Condi	tion		(P) Pass
61.	Opposite Drive End - Endbell Bearing	Fit		
61.	Opposite Drive End - Endbell Bearing 0 Degrees	Fit 60 Degrees	120 Degrees	
61.	11 0		120 Degrees 8.4655	



63.	Bearing Cap Condition	
	Drive End Bearing Cap	Opposite Drive End Bearing Cap
	pass	
64.	End Bell Air Seal Fits	
	Drive End Air Seal	Opposite Drive End Air Seal
	Pass	
65.	List Machine Work Needed Below	
	None	
66.	Technician Co sign TRH	RW
Root	Cause of Failure	
67.	Failure locations	
	De bearing	

#### 68. Root cause of failure

Bearing inner race walked up the shaft from over heating from mixing the grease



Dynar	nic Balance Report		
69.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
70.	Initial Balance Readings		
	Drive End	Opposite Drive End	
71	Final Balance Readings		
71.	Drive End	Opposite Drive End	
	Drive Ella	Opposite Drive End	
72.	Technician		
Asser	nbly		
73.	QC Check All Parts for Cleanliness Pr	ior to Assembly	
74.	Photograph All Major Components pri	or to assembly	
75.	Final Insulation Resistance Test		
76.	Assembled Shaft Endplay		
77.	Assembled Shaft Runout		
78.	Test Run Voltage		
	Volts	Volts	Volts
79.	Test Run Amperage		
	Amps	Amps	Amps
80	Drive End Vibration Readings - Inches	s Per Second	
	Horizontal	Vertical	Axial
81.	Opposite Drive End Vibration Reading	s - Inches Per Second	
	Horizontal	Vertical	Axial
	Ambient Temperature - Fahrenheit		
83.	Drive End Bearing Temps - Fahrenhei		
	5 Minutes	10 Minutes	15 Minutes

84. Opposite Drive End Bearing Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes
85. Document Final Condition	ו with Pictures after paint	
86. Final Pics and QC Review	86. Final Pics and QC Review	



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- 8. WARRANTIES. Hi-Speed warrants that all goods shall conform in all material aspects to the goods identified in the quotation to Buyer and/or purchase order, and Hi-Speed makes to Buyer the manufacturer's express warranty for any goods sold to Buyer, which is offered by the manufacturer at the time of acceptance of any quotation by Buyer. This warranty is conditioned upon the installation, operation, and maintenance of the goods in accordance with the manufacturer's recommendations and/or standard industry practice and the goods at all times being operated or used under normal operating conditions for which they were designed. Hi-Speed, at its sole option, will repair or

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- 11. <u>GOVERNING LAW AND JURISDICTION.</u> Any controversy arising out of any quotation, the purchase order, the goods sold or delivered, repair or replacement thereof, or any services provided pursuant to any quotation or any purchase order, or these Standard Terms and Conditions shall be governed by the laws of the state of Tennessee without regard to any choice of law provisions and any cause of action related in any manner thereto shall be brought only in the state or federal courts of Shelby County, Tennessee.
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