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# LR Motor Shop Repairs

## **Job Number 103774**

Prepared for Tyson Foods (10914)

1238 Market Street Clarksville AR 72830

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AC Inspection - Rev. 2: 22AAB40975

1.0



FolderID: 103774 FormID: 22307153



### **AC Inspection as Found**

Tyson Foods (10914)

1238 Market Street Clarksville, AR 72830

Serial Number:

AC Inspection - Rev. 2

Location: MOTOR SHOP LR

22AAB40975

Description: ROOTS BLOWER

Hi-Speed Job Number:	103774
Manufacturer:	ROOTS
Product Number:	M: 59URAIL
Spec/ID #:	PART: 6511402L
Serial Number:	22AAB40975
Frame:	NA
Voltage:	Other
Current:	0 (Amps)
# of Leads:	Other
J-box Included:	None
Coupling/Sheave:	Gear
Date Received:	11/18/2024
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	No
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	No
Bearing Type:	Rolling Element

Priorities Found: 7 - Good

## Overall Condition

1. Report Date

2. Nameplate Picture



3. Photos of all six sides of the machine.

















	4.	Describe the Overall Condition of the Equipment as Received  Needs cleaned			
	5.	. Distance from the end of the shaft to the Coupling/Sheave inche			inches
Ini	tial	Mechanical/Electrical			
	6.	Does Shaft Turn Freely?			(Y) Yes
	7.	Does the shaft require T.I.R in Lathe to identify additional repairs?			(No) No
	8.	Does Shaft Have Visible Damage? (No) No			(No) No
	9.	. Assembled Shaft Runout Inches			Inches
	10.	0. Assembled Shaft End Play inches			inches
	11.	1. Air Gap Variation <10%			
	12.	2. Lead Condition			
	13.	3. Lead Length Inches			Inches
	14.	. Does it have Lugs?, If so what is the Stud Size?			
	15.	. Lead Numbers			
	16.	Frame Condition			
	17.	Fan Condition			
	18.	3. Broken or Missing Components			
Ini	Initial Electrical Inspection				
	19.	Insulation Resistance/Megger			Megohms
	20.	Winding Resistance			
		1-2	1-3	2-3	

21.	Perform Surge Test	
22.	Number of Stator Slots	
23.	Stator Condition	
24.	Stator Thermistors/Ohms	
25.	Stator Overloads/Ohms	
Mecha	anical Inspection	
26.	Drive End Bearing Brand	
-	URB AST	
27.	Drive End Bearing Number-	
-	NJ306 6306	
28.	Drive End Bearing Qty.	2
29.	Drive End Bearing Type	
29.	Drive End Bearing Type  Ball and roller bearing	
		(Grease) Grease Lubricated
-	Ball and roller bearing	(Grease) Grease Lubricated
30.	Ball and roller bearing  Drive End Lubrication Type	(Grease) Grease Lubricated
30. 31.	Ball and roller bearing  Drive End Lubrication Type  Drive End Bearing Insulation or Grounding Device?	(Grease) Grease Lubricated



34. Opposite Drive End Bearing Brand	AST	
35. Opposite Drive End Bearing Number-	6306	
36. Opposite Drive End Bearing Qty.	2	
37. Opposite Drive End Bearing Type	(Ball) Ball Bearing	
38. Opposite Drive End Lubrication Type	(Oil) Oil Lubricated	
39. Opposite Drive End Bearing Insulation or Grounding Device?		
40. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?		

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#### 41. Opposite Drive End Bearing Condition

#### Contamination



42. Drive End Seal

1.1240-2.8340-0.3800 2.8300-0.389 1.1805-1.9960-0.2570x2

43. Opposite Drive End Seal 1.1805-1.9960-0.2570

#### **Rotor Inspection**

- 44. Rotor Type/Material
- 45. Growler Test
- 46. Number of Rotor Bars
- 47. Rotor Condition
- 48. List the Parts needed for the Repair Below

NJ306 6306x3 1.1805-1.9960-0.2570 x4 1.1240-2.8340-0.3800 2.8300-0.3890

49. Signature of Technician that Disassembled Motor

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Cw

#### **Mechanical Fits- Rotor**

50.	. Shaft Runout	inches
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			
	0 Degrees	60 Degrees	120 Degrees	
-	1.1818-1.1817-1.1817 1.1817-11816-1.1816			
55.	Drive End Bearing Shaft Fit Condition			(P) Pass
56.	Opposite Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
•	1.1815-1.1815-1.1815 1.1816-1.1816-1.1815			
57.	Opposite Drive End Bearing Shaft Fit	Condition		(P) Pass
58.	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
		· ·		
Mecha	anical Fits- Bearing Housings			
59.	Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
-	2.8353-2.8354-2.8353 2.8354-2.8354-2.8355			
60	Drive End - Endbell Bearing Fit Condit	ion		(P) Pass
	Opposite Drive End - Endbell Bearing			(1 ) 1 433
01.	0 Degrees	60 Degrees	120 Degrees	
	0 Deglees	00 Degrees	120 Degrees	
•	2.8353-2.8352-2.8353 2.8354-2.8354-2.8353			
62.	Opposite Drive End - Endbell Bearing	Fit Condition		(P) Pass
63.	Bearing Cap Condition			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
64.	End Bell Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
65.				
66.	Technician			Cw
	Chris	<b>,</b>		
	1			
-	Co sign: TRH			
Root (	Cause of Failure			
	Failure locations			
	Bearings			
68.	Root cause of failure			
-	Contamination			
Dvnar	mic Balance Report			
-	Rotor Weight and Balance Grade			
55.	Rotor Weight	Balance Grade		
	I VOLOT V VOIGITE	Dalarioo Orago		
	3			

70.	Initial Balance Readings		
	Drive End	Opposite Drive End	
71.	Final Balance Readings		
	Drive End	Opposite Drive End	
70	Taskaisiaa		
	Technician		
Assen	•	ior to Appendix	Crw
/3.	QC Check All Parts for Cleanliness Pr	•	CIW
74.	Photograph All Major Components pri	or to assembly	(Complete) Complete
75.	Final Insulation Resistance Test		Megohms
76.	Assembled Shaft Endplay		inches
77.	Assembled Shaft Runout		inches
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	gs - Inches Per Second	
	Horizontal	Vertical	Axial
	A 1		
	Ambient Temperature - Fahrenheit		
83.	Drive End Bearing Temps - Fahrenhe		45.04
	5 Minutes	10 Minutes	15 Minutes
84.	Opposite Drive End Bearing Temps -	Fahrenheit	
	5 Minutes	10 Minutes	15 Minutes
85.	Stator Temperatures- Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes

86. Document Final Condition with Pictures after paint

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87. Final Pics and QC Review Crw

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