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# Motor Shop Repairs

## Job Number 99756

Prepared for Sage V Foods

5901 SLOAN DRIVE LITTLE ROCK AR 72206

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1.0



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## AC Recondition As Found

Sage V Foods

5901 SLOAN DRIVE LITTLE ROCK, AR 72206

#### AC Recondition - Rev. 2

MOTOR SHOP LR Location: Serial Number: LL110048362

Description: 30HP Toshiba 1800RPM 286T

Hi-Speed Job Number:	99756
Manufacturer:	Toshiba
Product Number:	0304SDSH41A
Serial Number:	LL110048362
HP/kW:	30 (HP)
RPM:	1775 (RPM)
Frame:	286T
Voltage:	230 / 460
Current:	72/36
Phase:	Three
Hz:	60 (Hz)
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	05/05/2022
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 2 - High



7 - Good

#### **Overall Condition**

- 1. Report Date
- 2. Nameplate Picture



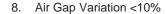
Describe the Overall Condition of the Equipment as Received

#### Initial Mechanical/Electrical

Does Shaft Turn Freely? (Yes) Yes 5. Does Shaft Have Visible Damage? (No) No 6. Assembled Shaft Runout 0.0007 Inches

7. Assembled Shaft End Play

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9. Lead Condition (P) Pass



10. Lead Length 10 Inches

11. Frame Condition pass









12. Fan Condition(P) Pass



13. Broken or Missing Components

### **Initial Electrical Inspection**

14. Insulation Resistance/Megger 6216 Megohms

15. Winding Resistance

1-2 1-3 2-3

16. Perform Surge Test (P) Pass



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17. Stator Condition wash and bake





Mechanical Inspection				
18. Drive End Bearing Number-	6310			
19. Drive End Bearing Qty.	1			
20. Drive End Bearing Type	(Ball) Ball Bearing			
21. Drive End Lubrication Type	(Grease) Grease Lubricated			
22. Drive End Bearing Insulation or Grounding Device?	no			
23. Drive End Wavy Washer/Snap-Ring Other Retention Device?	back cap			



24. Drive End Bearing Condition



6310	25. Opposite Drive End Bearing Number-
1	26. Opposite Drive End Bearing Qty.
(Ball) Ball Bearing	27. Opposite Drive End Bearing Type
(Grease) Grease Lubricated	28. Opposite Drive End Lubrication Type



29. Opposite Drive End Bearing Insulation or Grounding Device?

no



31. Opposite Drive End Bearing Condition

Ageis ring shaft size 2.357





32. Drive End Seal

33. Opposite Drive End Seal

#### **Rotor Inspection**

34. Rotor Type/Material

(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast

35. Growler Test (Pass) Pass



36. Number of Rotor Bars 40

37. Rotor Condition clean



38. List the Parts needed for the Repair Below

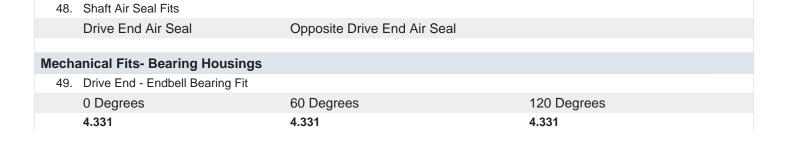
39. Signature of Technician that Disassembled Motor

RW





M	Mechanical Fits- Rotor							
	40.	Shaft Runout		0.0007 inches				
	41.	Rotor Runout						
		Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing				
	40	Ossanlina Fit Olsasat ta Basaira a Hassair						
	42.	. Coupling Fit Closest to Bearing Housing						
		0 Degrees	90 Degrees	120 Degrees				
	43.	Coupling Fit Closest to the end of the Shaft						
		0 Degrees	60 Degrees	120 Degrees				
	44.	Drive End Bearing Shaft Fit						
		0 Degrees	60 Degrees	120 Degrees				
		1.969	1.969	1.969				
	45. Drive End Bearing Shaft Fit Condition (P) Pas							
	46. Opposite Drive End Bearing Shaft Fit							
		0 Degrees	60 Degrees	120 Degrees				
		1.9692	1.9692	1.9692				
	47.	Opposite Drive End Bearing Shaft Fit (	Condition	(P) Pass				



#### 50. Drive End - Endbell Bearing Fit Condition







51. Opposite Drive End - Endbell Bearing Fit

0 Degrees 60 Degrees 120 Degrees

4.332 4.3321 4.332

▶ 52. Opposite Drive End - Endbell Bearing Fit Condition

(F) Fail



53. Bearing Cap Condition

Drive End Bearing Cap Opposite Drive End Bearing Cap

pass



54. End Bell Air Seal Fits

Drive End Air Seal Opposite Drive End Air Seal

55. List Machine Work Needed Below ODE END BELL HOUSING FIT BAD

56. Technician RW



#### **Root Cause of Failure**

- 57. Failure locations
- 58. Root cause of failure *ODE bearing noise*

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