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

AC Recondition As Found

Arkansas Lime Company
600 Limedale Rd
Batesville, AR 72501

FolderID: 99652
FormID: 13328523

AC Recondition - Rev. 2

Location:	Motor
Serial Number:	18100303536
Description:	75HP Toshiba 1200RPM 405T

Hi-Speed Job Number:	99652
Manufacturer:	Toshiba
Product Number:	0756SDSR41A-P
Serial Number:	18100303536
HP/kW:	75 (HP)
RPM:	1180 (RPM)
Frame:	405T
Voltage:	230 / 460
Current:	182/91
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	04/14/2022
Repair Stage:	Teardown Inspection

Priorities Found: **7 - Good**

Overall Condition

1. Report Date
2. Nameplate Picture — P21

3. Describe the Overall Condition of the Equipment as Received — P30

Initial Mechanical/Electrical

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

7.	Assembled Shaft End Play			
8.	Air Gap Variation <10%			
9.	Lead Condition			P31

10.	Lead Length		**11 Inches**	
11.	Stator Temperature Detector Rating and Function			

Quantity	Rating	Quantity Passed

12.	Bearing Temperature Detector Rating and Function			

Quantity	Rating	Quantity Passed

13.	Frame Condition		**good.**	
14.	Fan Condition		**(P) Pass**	P54

15.	Heater Quantity, Ratings			

Quantity	Volts/Watts	Pass/Fail

16.	Broken or Missing Components			

Initial Electrical Inspection

17.	Insulation Resistance/Megger			
18.	Winding Resistance			

1-2	1-3	2-3

19.	Perform Surge Test		**(P) Pass**	P34

20.	Stator Condition		P39

Mechanical Inspection

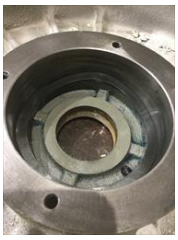
21.	Drive End Bearing Number-	**6317 C3**	P8

22.	Drive End Bearing Qty.	**1**	
23.	Drive End Bearing Type	**(Ball) Ball Bearing**	P20

24.	Drive End Lubrication Type	**(Grease) Grease Lubricated**	
25.	Drive End Bearing Insulation or Grounding Device?	**none**	
26.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	**none**	
27.	Drive End Bearing Condition		
28.	Opposite Drive End Bearing Number-		P46

29.	Opposite Drive End Bearing Qty.	**1**	P48

30.	Opposite Drive End Bearing Type	**(Ball) Ball Bearing**	
31.	Opposite Drive End Lubrication Type	**(Grease) Grease Lubricated**	
32.	Opposite Drive End Bearing Insulation or Grounding Device?	**none**	
33.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	**wavy washer**	P57



34.	Opposite Drive End Bearing Condition		
35.	Drive End Seal		
36.	Opposite Drive End Seal		

Rotor Inspection

37.	Rotor Type/Material	**(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast**	
38.	Growler Test	**(Pass) Pass**	
39.	Number of Rotor Bars		
40.	Rotor Condition	**pass**	P23

41.	List the Parts needed for the Repair Below		
42.	Signature of Technician that Disassembled Motor	**Terrence. Holland**	

Mechanical Fits- Rotor

43.	Shaft Runout	**0.002 inches**	
44.	Rotor Runout		

Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing

45.	Coupling Fit Closest to Bearing Housing		

0 Degrees	90 Degrees	120 Degrees

46.	Coupling Fit Closest to the end of the Shaft		

0 Degrees	60 Degrees	120 Degrees

47. Drive End Bearing Shaft Fit — P36

0 Degrees	60 Degrees	120 Degrees
3.3472	**3.347**	**3.347**

48. Drive End Bearing Shaft Fit Condition — **(P) Pass**

49. Opposite Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
2.5595	**2.5595**	**2.5594**

Pass

50. Opposite Drive End Bearing Shaft Fit Condition — **(P) Pass**

51. Shaft Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal

Mechanical Fits- Bearing Housings

52. Drive End - Endbell Bearing Fit — P2

0 Degrees	60 Degrees	120 Degrees
5.5119	**5.5118**	**5.5119**

53. Drive End - Endbell Bearing Fit Condition — **(P) Pass**

54. Opposite Drive End - Endbell Bearing Fit — P18

0 Degrees	60 Degrees	120 Degrees
7.0871	**7.087**	**7.0873**

55. Opposite Drive End - Endbell Bearing Fit Condition — **(P) Pass**

56. Bearing Cap Condition

Drive End Bearing Cap	Opposite Drive End Bearing Cap

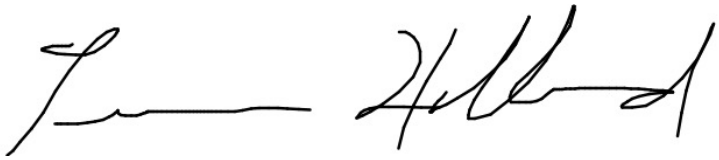
57. End Bell Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal

58. List Machine Work Needed Below

None

59. Technician **Terrence. Holland**



Root Cause of Failure

60. Failure locations

Bearings

61. Root cause of failure

Bearings show signs of frosting. Also bearing grease was contaminated with dirt particles.