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

AC Recondition As Found

Remington (10243)
2592 AR Hwy 15 N
Lonoke, AR 72086

FolderID: 100351
FormID: 14663865

AC Recondition - Rev. 2

Location:	MOTOR SHOP LR
Serial Number:	2328779
Description:	15HP LINCOLN 1800RPM 254T

Hi-Speed Job Number:	100351
Manufacturer:	Other
Product Number:	3787
Serial Number:	2328779
HP/kW:	15 (HP)
RPM:	1750 (RPM)
Frame:	254T
Voltage:	230 / 460
Current:	40/20
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.00
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: **4 - High** **5 - Good**

Overall Condition

1. Report Date

2. Nameplate Picture P21

3. Photos of all six sides of the machine. P27

	4.	Describe the Overall Condition of the Equipment as Received ***Oily but serviceable***	
Initial Mechanical/Electrical			
●	5.	Does Shaft Turn Freely?	**(Yes) Yes**
	6.	Does Shaft Have Visible Damage?	**(Yes) Yes** P12

●	7.	Assembled Shaft Runout	**0.001 Inches**
	8.	Assembled Shaft End Play	
	9.	Air Gap Variation <10%	
●	10.	Lead Condition	**(P) Pass**
	11.	Lead Length	**5.75 Inches**
	12.	Frame Condition	**pass**

13. Fan Condition **(F) Fail** P53

Key way wallowed out.

14. Broken or Missing Components

Initial Electrical Inspection

15. Insulation Resistance/Megger **6804 Megohms** P5

16. Winding Resistance

1-2	1-3	2-3

17.	Perform Surge Test	**(P) Pass**	P35

18.	Stator Condition	**pass**	

Mechanical Inspection

19.	Drive End Bearing Number-	**6309Z**	P8

20.	Drive End Bearing Qty.	**1**
21.	Drive End Bearing Type	**(Ball) Ball Bearing**
22.	Drive End Lubrication Type	**(Grease) Grease Lubricated**
23.	Drive End Bearing Insulation or Grounding Device?	**none**
24.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	**none**
25.	Drive End Bearing Condition	**worn**

26.	Opposite Drive End Bearing Number-	**6307**	P46

27.	Opposite Drive End Bearing Qty.	**1**
28.	Opposite Drive End Bearing Type	**(Ball) Ball Bearing**
29.	Opposite Drive End Lubrication Type	**(Grease) Grease Lubricated**
30.	Opposite Drive End Bearing Insulation or Grounding Device?	**none**
31.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	
32.	Opposite Drive End Bearing Condition	**worn**
33.	Drive End Seal	**none**
34.	Opposite Drive End Seal	**replace** P59

Rotor Inspection

35.	Rotor Type/Material	**(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast**

36.	Growler Test	**(Pass) Pass**
37.	Number of Rotor Bars	
38.	Rotor Condition	**serviceable**
39.	List the Parts needed for the Repair Below ***307 sleeve.***	
40.	Signature of Technician that Disassembled Motor	**Terrence. Holland**

Mechanical Fits- Rotor

41.	Shaft Runout	**0.001 inches**
42.	Rotor Runout	

Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing

43.	Coupling Fit Closest to Bearing Housing	

0 Degrees	90 Degrees	120 Degrees

44.	Coupling Fit Closest to the end of the Shaft	

0 Degrees	60 Degrees	120 Degrees

45.	Drive End Bearing Shaft Fit	

0 Degrees	60 Degrees	120 Degrees
1.7716	**1.7714**	**1.7714**

Minimum allowed is 1.7718

46.	Drive End Bearing Shaft Fit Condition	**(F) Fail**
47.	Opposite Drive End Bearing Shaft Fit	

0 Degrees	60 Degrees	120 Degrees
1.3784	**1.3783**	**1.3783**

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

49. Shaft Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal

Mechanical Fits- Bearing Housings

50. Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees
3.9373	**3.9374**	**3.9374**

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

52. Opposite Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees

Bad. Lip worn in housing fit.

53. Opposite Drive End - Endbell Bearing Fit Condition **(F) Fail**

54. Bearing Cap Condition

Drive End Bearing Cap	Opposite Drive End Bearing Cap

55. End Bell Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal

56. List Machine Work Needed Below

Sleeve ode housing fit. Shaft key way on metal fan assembly wallowed out. D.E. shaft bearing journal bad

57. Technician **Terrence. Holland**

Root Cause of Failure

58. Failure locations

59. Root cause of failure