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: 100367
FormID: 14677326

AC Recondition - Rev. 2

Location:	MOTOR SHOP LR
Serial Number:	7T
Description:	1HP US MOTORS 1800RPM 182

Hi-Speed Job Number:	100367
Manufacturer:	US Motors/Nidec
Product Number:	6 11 13-00-164
Serial Number:	7T
HP/kW:	1 (HP)
RPM:	1800 (RPM)
Frame:	182
Voltage:	208-230/460
Current:	3.6/1.8
Phase:	Three
Hz:	60 (Hz)
Enclosure:	TENV
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: **1 - 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

   Serviceable

5. Distance from the end of the shaft to the Coupling/Sheave

Initial Mechanical/Electrical

6.	Does Shaft Turn Freely?	**(No) No**	P1

7.	Does Shaft Have Visible Damage?	**(No) No**
8.	Assembled Shaft Runout	
9.	Assembled Shaft End Play	
10.	Air Gap Variation <10%	
11.	Lead Condition	
12.	Lead Length	**8 Inches**
13.	Frame Condition	**pass**
14.	Fan Condition	**(N) NA**
15.	Broken or Missing Components	**ode bearing cap has broken inner tab** P58

Initial Electrical Inspection

16.	Insulation Resistance/Megger	**Megohms**
17.	Winding Resistance	

1-2	1-3	2-3

18.	Perform Surge Test	**(NA) Not Applicable**	P35

19.	Stator Condition	**rewind**	

Mechanical Inspection

20.	Drive End Bearing Number-	**6205**	P8

21.	Drive End Bearing Qty.	**1**
22.	Drive End Bearing Type	**(Ball) Ball Bearing**
23.	Drive End Lubrication Type	**(Grease) Grease Lubricated**
24.	Drive End Bearing Insulation or Grounding Device?	**none**
25.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	**none**
26.	Drive End Bearing Condition	**replace**
27.	Opposite Drive End Bearing Number-	**6205** P47

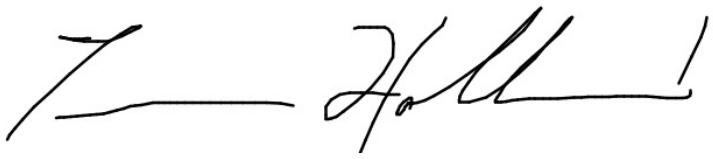
28.	Opposite Drive End Bearing Qty.	**1**	
29.	Opposite Drive End Bearing Type	**(Ball) Ball Bearing**	
30.	Opposite Drive End Lubrication Type	**(Grease) Grease Lubricated**	
31.	Opposite Drive End Bearing Insulation or Grounding Device?	**none**	
32.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	**none**	
33.	Opposite Drive End Bearing Condition	**destroyed**	P57

34.	Drive End Seal	**none**	
35.	Opposite Drive End Seal	**none**	

Rotor Inspection

36.	Rotor Type/Material	**(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast**	P3

37.	Growler Test	**(Pass) Pass**	
38.	Number of Rotor Bars		
39.	Rotor Condition	**good**	
40.	List the Parts needed for the Repair Below ***Bearings and rewind stator.***		
41.	Signature of Technician that Disassembled Motor	**Terrence. Holland**	



Mechanical Fits- Rotor

	42.	Shaft Runout			**inches**
	43.	Rotor Runout			
		Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
	44.	Coupling Fit Closest to Bearing Housing			
		0 Degrees	90 Degrees	120 Degrees	
	45.	Coupling Fit Closest to the end of the Shaft			
		0 Degrees	60 Degrees	120 Degrees	
	46.	Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
		0.9844000000000001	**0.9845**	**0.9844000000000001**	
●	47.	Drive End Bearing Shaft Fit Condition			**(P) Pass**
	48.	Opposite Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
		0.9844000000000001	**0.9844000000000001**	**0.9844000000000001**	
●	49.	Opposite Drive End Bearing Shaft Fit Condition			**(P) Pass**
	50.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		

Mechanical Fits- Bearing Housings

	51.	Drive End - Endbell Bearing Fit			
		0 Degrees	60 Degrees	120 Degrees	
		2.0474	**2.0476**	**2.0475**	
●	52.	Drive End - Endbell Bearing Fit Condition			**(P) Pass**
	53.	Opposite Drive End - Endbell Bearing Fit			
		0 Degrees	60 Degrees	120 Degrees	
		2.0477	**2.0477**	**2.0478**	
●	54.	Opposite Drive End - Endbell Bearing Fit Condition			**(P) Pass**
	55.	Bearing Cap Condition			P30
		Drive End Bearing Cap	Opposite Drive End Bearing Cap		
		pass	**pass**		

56. End Bell Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal

57. List Machine Work Needed Below

None

58. Technician **Terrence. Holland**

Root Cause of Failure

59. Failure locations

Windings

60. Root cause of failure

Piece of ode bearing cap broke off and shorted the windings.