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: 100704
FormID: 15531409

AC Recondition - Rev. 2

Location:	MOTOR SHOP LR
Serial Number:	Z2103290257
Description:	15HP BALDOR 3600RPM 254TCZ

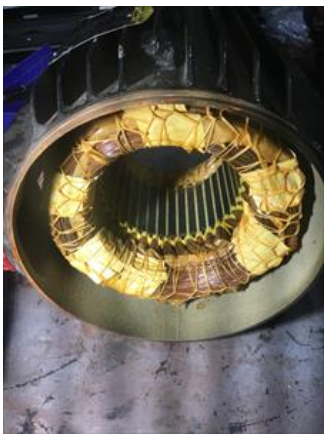
Hi-Speed Job Number:	100704
Manufacturer:	Baldor
Product Number:	85600H24
Spec/ID #:	09G939Z602G1
Serial Number:	Z2103290257
HP/kW:	15 (HP)
RPM:	3520 (RPM)
Frame:	254TCZ
Voltage:	230 / 460
Current:	35/17.5
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
J-box Included:	None
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

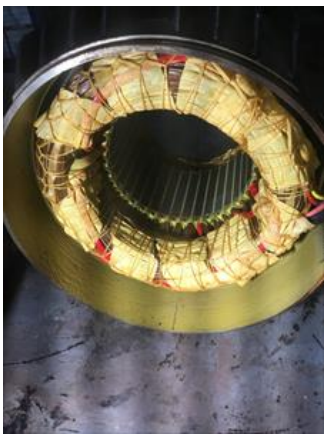
Priorities Found: **2 - High** **6 - Good**

Overall Condition

1. Report Date
2. Nameplate Picture P20

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





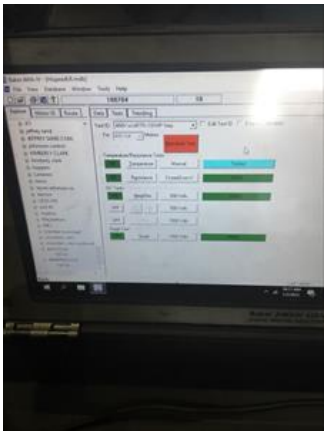
	4.	Describe the Overall Condition of the Equipment as Received ***Serviceable.***	
Initial Mechanical/Electrical			
🔴	5.	Does Shaft Turn Freely?	**(No) No**
	6.	Does Shaft Have Visible Damage?	**(No) No** P11

	7.	Assembled Shaft Runout	
	8.	Assembled Shaft End Play	
	9.	Air Gap Variation <10%	
🟢	10.	Lead Condition	**(P) Pass**
	11.	Lead Length	**10 Inches**
	12.	Frame Condition	**pass**
🟢	13.	Fan Condition	**(P) Pass**
	14.	Broken or Missing Components	

Initial Electrical Inspection

	15.	Insulation Resistance/Megger		
	16.	Winding Resistance		
		1-2	1-3	2-3

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



18.	Number of Stator Slots		
19.	Stator Condition	**pass**	

Mechanical Inspection

20.	Drive End Bearing Number-	**7309**	P8

21.	Drive End Bearing Qty.	**1**

22.	Drive End Bearing Type	**(Thrust) Thrust**	P21

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	**contaminated grease**
27.	Opposite Drive End Bearing Number-	**6208** 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?	**yes** P56

33.	Opposite Drive End Bearing Condition	**catastrophic cage failure**	P57

34.	Drive End Seal	**Cho 13369**
	1.687 2.275 0.313	
35.	Opposite Drive End Seal	

Rotor Inspection

36.	Rotor Type/Material	**(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast**
37.	Growler Test	**(Pass) Pass**
38.	Number of Rotor Bars	
39.	Rotor Condition	**pass**
40.	List the Parts needed for the Repair Below ***7306 & 6208 bearings. Re-sleeve ODE housing fit***	
41.	Signature of Technician that Disassembled Motor	**Terrence. Holland**

Mechanical Fits- Rotor

42.	Shaft Runout	**0.001 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
1.772	**1.772**	**1.772**

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

48.	Opposite Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	1.575	**1.5752**	**1.575**	
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	
	3.9377	**3.9378**	**3.9377**	
52.	Drive End - Endbell Bearing Fit Condition			**(P) Pass**
53.	Opposite Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	

Pitted

54.	Opposite Drive End - Endbell Bearing Fit Condition	**(F) Fail**	P22

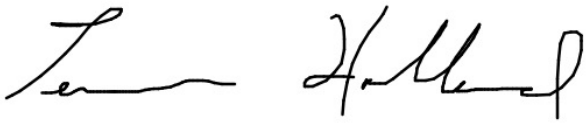
55.	Bearing Cap Condition			P30
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	pass	**pass**		

56.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	

57. List Machine Work Needed Below

ODE housing fit pitted.

58. Technician **Terrence Holland**



Root Cause of Failure

59. Failure locations

ODE housing fit pitted

60. Root cause of failure

ODE bearing cage failure.