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

AC Recondition As Found

Georges Inc
1810 S. St. Louis Street
Batesville, AR 72501

FolderID: 100475
FormID: 14867708

AC Recondition - Rev. 2

Location:	Shop
Serial Number:	1027909941
Description:	25HP WEG 1800RPM 284/6T

Hi-Speed Job Number:	100475
Manufacturer:	WEG
Product Number:	TE1BF0X0N
Serial Number:	1027909941
HP/kW:	25 (HP)
RPM:	1765 (RPM)
Frame:	284/6T
Voltage:	230 / 460
Current:	59/24.5
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.25
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

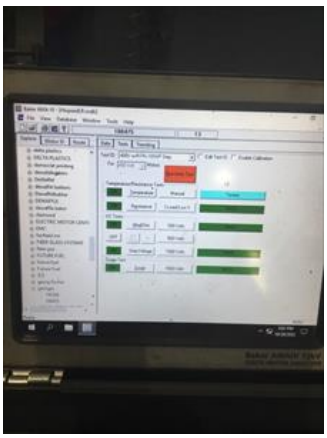
Priorities Found: **2 - High** **7 - Good**

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

Initial Mechanical/Electrical

5. Does Shaft Turn Freely? **(Yes) Yes**

	6. Does Shaft Have Visible Damage?	**(No) No**	P12

	7. Assembled Shaft Runout	**0.001 Inches**	
	8. Assembled Shaft End Play		
	9. Air Gap Variation <10%		
	10. Lead Condition	**(P) Pass**	P32

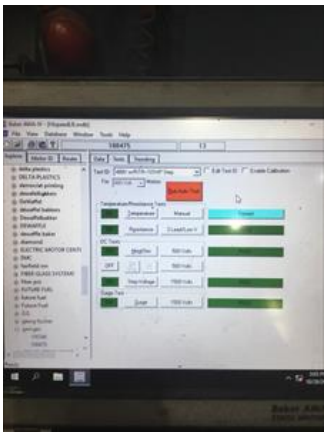
	11. Lead Length	**7 Inches**	
	12. Frame Condition	**pass**	
	13. Fan Condition	**(P) Pass**	P53

	14. Broken or Missing Components		

Initial Electrical Inspection

	15. Insulation Resistance/Megger	**Megohms**	

16.	Winding Resistance			
	1-2	1-3	2-3	
17.	Perform Surge Test		**(P) Pass**	P35



18.	Stator Condition		

Mechanical Inspection

19.	Drive End Bearing Number-	**6311 C3**	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	**replace**	
26.	Opposite Drive End Bearing Number-	**6211 C3**	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?	**none**	
32.	Opposite Drive End Bearing Condition	**replace**	
33.	Drive End Seal		
34.	Opposite Drive End Seal	**dust seal**	P59

Rotor Inspection

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

39.	List the Parts needed for the Repair Below	
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
2.1654	**2.1655**	**2.1656**

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

0 Degrees	60 Degrees	120 Degrees
2.1656	**2.1655**	**2.1654**

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

	0 Degrees	60 Degrees	120 Degrees
50. Drive End - Endbell Bearing Fit	**4.725**	**4.7248**	**4.7248**

51.	Drive End - Endbell Bearing Fit Condition	**(P) Pass**	
52.	Opposite Drive End - Endbell Bearing Fit		P18

0 Degrees	60 Degrees	120 Degrees

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

54. Bearing Cap Condition

Drive End Bearing Cap	Opposite Drive End Bearing Cap
pass	

55. End Bell Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal

56. List Machine Work Needed Below

Machine O.D.E end bell housing fit

57. Technician **Terrence. Holland**

Root Cause of Failure

58. Failure locations

Bearings.

59. Root cause of failure

Bearing grease contaminated/bearings worn, and o.d.e housing fit pitted.