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

AC Inspection as Found

Greenbrier Central LLC
709 Jones Road
Paragould, AR 72450

FolderID: 153699
FormID: 21702310

AC Inspection - Rev. 2

Completed by: JAMES VALENTINE on 09/23/2024

Location:	Bld 709
Serial Number:	880147474.14.14.001

Description:10 Hp

Hi-Speed Job Number:	153699
Manufacturer:	SEW Eurodrive
Serial Number:	880147474.14.14.001
HP/kW:	10 (HP)
RPM:	1775 (RPM)
Frame:	IE2
Voltage:	230 / 460
Current:	25/12 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	6
J-box Included:	Half
Coupling/Sheave:	Gear
Date Received:	09/23/2024
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Rewind:	No
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: **2 - High** **49 - Good**

Overall Condition

1.	Report Date	**09/23/2024**

2. Nameplate Picture P2

3. Photos of all six sides of the machine. P3

	4.	Describe the Overall Condition of the Equipment as Received ***Good***		
	5.	Distance from the end of the shaft to the Coupling/Sheave		
	6.	Report Date [COPY]		
Initial Mechanical/Electrical				
	7.	Does Shaft Turn Freely?	**(Y) Yes**	
	8.	Does the shaft require T.I.R in Lathe to identify additional repairs?	**(No) No**	
	9.	Does Shaft Have Visible Damage?	**(No) No**	
	10.	Assembled Shaft Runout	**Inches**	
	11.	Assembled Shaft End Play		
	12.	Air Gap Variation <10%		
	13.	Lead Condition		
	14.	Lead Length	**5 Inches**	
	15.	Does it have Lugs?, If so what is the Stud Size?		
	16.	Lead Numbers	**1-6**	
	17.	Frame Condition	**good**	
	18.	Fan Condition	**(F) Fail**	P18

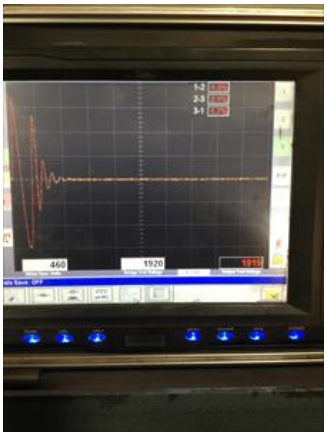
	19.	Broken or Missing Components	**Fan bad and cover was missing when recieved.**	
Initial Electrical Inspection				

20.	Insulation Resistance/Megger	**Megohms**	P20

21.	Winding Resistance		P21

1-2	1-3	2-3

22.	Perform Surge Test	**(P) Pass**	P22



23.	Number of Stator Slots	**36**
24.	Stator Condition	**good**
25.	Stator Thermistors/Ohms	
26.	Stator Overloads/Ohms	

Mechanical Inspection

27.	Drive End Bearing Brand	**skf**

28.	Drive End Bearing Number-	**6308**	
29.	Drive End Bearing Qty.	**1**	
30.	Drive End Bearing Type	**(Ball) Ball Bearing**	
31.	Drive End Lubrication Type	**(Grease) Grease Lubricated**	
32.	Drive End Bearing Insulation or Grounding Device?	**none**	
33.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	**none**	
34.	Drive End Bearing Condition	**good**	P34

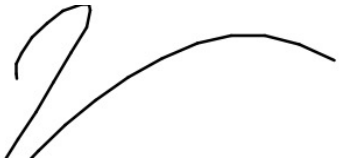
35.	Opposite Drive End Bearing Brand	**Hoyt**	
36.	Opposite Drive End Bearing Number-	**6207 2rsr**	
37.	Opposite Drive End Bearing Qty.	**1**	
38.	Opposite Drive End Bearing Type	**(Ball) Ball Bearing**	
39.	Opposite Drive End Lubrication Type	**(Grease) Grease Lubricated**	
40.	Opposite Drive End Bearing Insulation or Grounding Device?	**insulated bearing**	
41.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	**wavy washer**	P41

42.	Opposite Drive End Bearing Condition	**good**	P42

	43.	Drive End Seal	
	44.	Opposite Drive End Seal	

Rotor Inspection

●	45.	Rotor Type/Material	**(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast**
●	46.	Growler Test	**(Pass) Pass**
●	47.	Number of Rotor Bars	**28**
●	48.	Rotor Condition	**good**
●	49.	List the Parts needed for the Repair Below ***1-6308 bearing*** ***1-6207 2rsr bearing***	
●	50.	Signature of Technician that Disassembled Motor	**James Valentine**



Mechanical Fits- Rotor

	51.	Shaft Runout	
	52.	Rotor Runout	

Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing

	53.	Coupling Fit Closest to Bearing Housing	

0 Degrees	90 Degrees	120 Degrees

	54.	Coupling Fit Closest to the end of the Shaft	

0 Degrees	60 Degrees	120 Degrees

●	55.	Drive End Bearing Shaft Fit	

0 Degrees	60 Degrees	120 Degrees
1.5753	**1.5753**	**1.5753**

1.5753/1.5749

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

57. Opposite Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
1.3785	**1.3785**	**1.3785**

1.3785/1.3781

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

59. Shaft Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal

Mechanical Fits- Bearing Housings

60. Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees
3.5435	**3.5435**	**3.5435**

3.5433/3.5442

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

62. Opposite Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees
2.8346	**2.8346**	**2.8346**

2.8346/2.8353

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

64. Bearing Cap Condition

Drive End Bearing Cap	Opposite Drive End Bearing Cap
good	**good**

65. End Bell Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal

66. List Machine Work Needed Below

None

67. Technician **James Valentine**

Root Cause of Failure

68. Failure locations

Recondition

69. Root cause of failure

N/a