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

AC Recondition As Found

Arauco-Malvern MDF (10298)
1275 Willamette Rd
Malvern, AR 72104

FolderID: 99707
FormID: 13409098

AC Recondition - Rev. 2

Location:	LR MOTORSHOP
Serial Number:	EOOT 0622 TE 13
Description:	75HP Siemens 1800RPM 365T

Hi-Speed Job Number:	99707
Manufacturer:	Siemens
Product Number:	1LA03654SE41A
Serial Number:	EOOT 0622 TE 13
HP/kW:	75 (HP)
RPM:	1775 (RPM)
Frame:	365T
Voltage:	460
Current:	87
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	04/22/2022
Repair Stage:	Teardown Inspection

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

Overall Condition

1. Report Date

	2.	Nameplate Picture	P21









	3.	Describe the Overall Condition of the Equipment as Received	
Initial Mechanical/Electrical			
	4.	Does Shaft Turn Freely?	**(Yes) Yes**
	5.	Does Shaft Have Visible Damage?	**(No) No** P12


	6.	Assembled Shaft Runout	**0.003 Inches**
	7.	Assembled Shaft End Play	**0 inches**
	8.	Air Gap Variation <10%	
	9.	Lead Condition	**(P) Pass** P31

	10.	Lead Length	**19.5 Inches**

11. Stator Temperature Detector Rating and Function

Quantity	Rating	Quantity Passed

12. Bearing Temperature Detector Rating and Function

Quantity	Rating	Quantity Passed

13. Frame Condition P52



14. Fan Condition **(F) Fail** P54

15. Heater Quantity, Ratings

Quantity	Volts/Watts	Pass/Fail

16. Broken or Missing Components **fan**

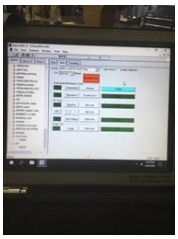
Initial Electrical Inspection

17. Insulation Resistance/Megger **1,760 Megohms** P5

18. Winding Resistance

1-2	1-3	2-3

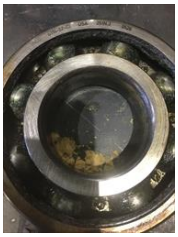
19. Perform Surge Test **(P) Pass** P34



20.	Stator Condition		P39

Mechanical Inspection

21.	Drive End Bearing Number-	**63142Z/C3**	P8



22.	Drive End Bearing Qty.	**1**	
23.	Drive End Bearing Type	**(Ball) Ball Bearing**	P20

24.	Drive End Lubrication Type	**(Grease) Grease Lubricated**	
25.	Drive End Bearing Insulation or Grounding Device?		P32

26.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	**none**	
27.	Drive End Bearing Condition	**contaminated grease**	P42

28.	Opposite Drive End Bearing Number-	**6314-J20AA-C3**	P46



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

34.	Opposite Drive End Bearing Condition	**contaminated grease**	P58


35.	Drive End Seal		
36.	Opposite Drive End Seal		

Rotor Inspection

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

41.	List the Parts needed for the Repair Below		

42. Signature of Technician that Disassembled Motor — **Terrence. Holland**

Mechanical Fits- Rotor

43. Shaft Runout — **0.003 inches**

44. Rotor Runout

Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing

45. Coupling Fit Closest to Bearing Housing

0 Degrees	90 Degrees	120 Degrees

46. Coupling Fit Closest to the end of the Shaft

0 Degrees	60 Degrees	120 Degrees

47. Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
2.7569	**2.757**	**2.7568**

Max allowed is 2.7565. Oversized!

48. Drive End Bearing Shaft Fit Condition — **(F) Fail**

49. Opposite Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
2.7565	**2.7565**	**2.7564**

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

51. Shaft Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal

Mechanical Fits- Bearing Housings

52. Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees
5.9072		

Oversized. Max allowed is 5.9065

53. Drive End - Endbell Bearing Fit Condition — **(F) Fail** P7

Worn

54. Opposite Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees
5.9062	**5.9064**	**5.9064**

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

56. Bearing Cap Condition

Drive End Bearing Cap	Opposite Drive End Bearing Cap
pass	**pass**

57. End Bell Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal

58. List Machine Work Needed Below

59. Technician **Terrence. Holland**

Root Cause of Failure

60. Failure locations

61. Root cause of failure

Contaminated grease