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

AC Recondition As Found

Lexicon (10257)
8900 Fouche Dam Pike
Little Rock, AR

FolderID: 99633
FormID: 13290196

AC Recondition - Rev. 2

Location:	SHOP
Serial Number:	736261D 13001 2010
Description:	22.2KW LEROY SOMERS 1760RPM TWO SPEED

Hi-Speed Job Number:	99633
Manufacturer:	Leroy Somer
Product Number:	LS180LG-T
Serial Number:	736261D 13001 2010
HP/kW:	22.2 (kW)
RPM:	1760 (RPM)
Voltage:	460
Current:	35.7
Phase:	Three
Hz:	60 (Hz)
Enclosure:	ODP
J-box Included:	Complete
Coupling/Sheave:	Coupling
Date Received:	04/08/2022
Repair Stage:	Teardown Inspection
Bearing Type:	Rolling Element

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

Overall Condition

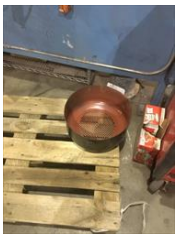
1. Report Date

2. Nameplate Picture P18











3. Describe the Overall Condition of the Equipment as Received

Serviceable

4. Distance from the end of the shaft to the Coupling/Sheave **0.5 inches** P31

Shaft in.

Initial Mechanical/Electrical

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

6.	Does Shaft Have Visible Damage?	**(No) No**	P10

7.	Assembled Shaft Runout	**0.002 Inches**	
8.	Assembled Shaft End Play	**0 inches**	
9.	Air Gap Variation <10%		
10.	Lead Condition	**(F) Fail**	P29

11.	Lead Length	**Inches**

12. Stator Temperature Detector Rating and Function

Quantity	Rating	Quantity Passed

13. Bearing Temperature Detector Rating and Function

Quantity	Rating	Quantity Passed

14.	Frame Condition	**pass**	P51

15.	Fan Condition	**(P) Pass**	P53

16. Heater Quantity, Ratings

Quantity	Volts/Watts	Pass/Fail

17. Broken or Missing Components

Initial Electrical Inspection

18.	Insulation Resistance/Megger		
19.	Winding Resistance		
	1-2	1-3	2-3
20.	Perform Surge Test	**(NA) Not Applicable**	P33

21.	Stator Condition		

Mechanical Inspection

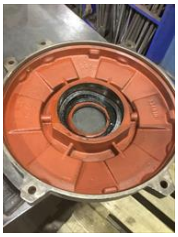
22.	Drive End Bearing Number-	**6312-2Z/C3**	P8

23.	Drive End Bearing Qty.	**1**
24.	Drive End Bearing Type	**(Ball) Ball Bearing**
25.	Drive End Lubrication Type	**(Grease) Grease Lubricated**
26.	Drive End Bearing Insulation or Grounding Device?	**none**
27.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	**none**
28.	Drive End Bearing Condition	P41

29.	Opposite Drive End Bearing Number-	**62142Z/C3**	P44

30.	Opposite Drive End Bearing Qty.	**1**
31.	Opposite Drive End Bearing Type	**(Ball) Ball Bearing**
32.	Opposite Drive End Lubrication Type	**(Grease) Grease Lubricated**
33.	Opposite Drive End Bearing Insulation or Grounding Device?	**no**

34.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?		P55



35.	Opposite Drive End Bearing Condition	**grease dirty**	P58

36.	Drive End Seal	**60*80*10**	P59

37.	Opposite Drive End Seal	**none**	

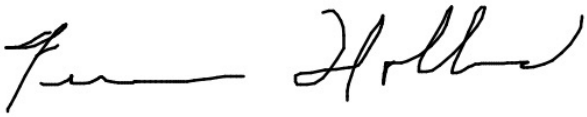
Rotor Inspection

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

39.	Growler Test	**(Pass) Pass**	
40.	Number of Rotor Bars		
41.	Rotor Condition	**pass**	P20

42.	List the Parts needed for the Repair Below		

43. Signature of Technician that Disassembled Motor **Terrence. Holland**



Mechanical Fits- Rotor

44. Shaft Runout

45. Rotor Runout

Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing

46. Coupling Fit Closest to Bearing Housing

0 Degrees	90 Degrees	120 Degrees

47. Coupling Fit Closest to the end of the Shaft

0 Degrees	60 Degrees	120 Degrees

48. Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
2.7558	**2.756**	**2.756**

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

50. Opposite Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
2.3629	**2.3627**	**2.3627**

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

52. Shaft Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal

Mechanical Fits- Bearing Housings

53. Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees
5.1189	**5.119**	**5.1191**

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

55. Opposite Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees
4.9217	**4.9219**	**4.9219**

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

57. Bearing Cap Condition

Drive End Bearing Cap	Opposite Drive End Bearing Cap
pass	**n/a**

58. End Bell Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal

59. List Machine Work Needed Below

D.E. Shaft needs polishing

60. Technician **Terrence. Holland**