



AC Recondition As Found

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

FolderID: 100392
FormID: 14720015

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
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Rewind:	Yes
Shaft Machined Fit Repairs Required:	Yes
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: ● 1 - High ● 6 - Good

Overall Condition



1. Report Date
2. Nameplate Picture

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4. Describe the Overall Condition of the Equipment as Received
Serviceable

5. Distance from the end of the shaft to the Coupling/Sheave

Initial Mechanical/Electrical



6.	Does Shaft Turn Freely?	(Yes) Yes	
7.	Does Shaft Have Visible Damage?	(No) No	
8.	Assembled Shaft Runout		
9.	Assembled Shaft End Play		
10.	Air Gap Variation <10%		
11.	Lead Condition	(P) Pass	
12.	Lead Length		
13.	Frame Condition		
14.	Fan Condition	(P) Pass	P54



15. Broken or Missing Components

Initial Electrical Inspection

16.	Insulation Resistance/Megger	Megohms
17.	Winding Resistance	
	1-2	1-3
		2-3
18.	Perform Surge Test	
19.	Stator Condition	rewind

Mechanical Inspection



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21.	Drive End Bearing Qty.	1	
22.	Drive End Bearing Type	(Ball) Ball Bearing	
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	none	
27.	Opposite Drive End Bearing Number-	6214 2Z	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	replace	
34. Drive End Seal		
35. Opposite Drive End Seal		

Rotor Inspection



36. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	P3
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37.	Growler Test	(Pass) Pass
38.	Number of Rotor Bars	54
39.	Rotor Condition	pass
40.	List the Parts needed for the Repair Below	
41.	Signature of Technician that Disassembled Motor	Terrence. Holland
		
Mechanical Fits- Rotor		
42.	Shaft Runout	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
	2.3628	2.3627 2.3627
● 47.	Drive End Bearing Shaft Fit Condition	(P) Pass
48.	Opposite Drive End Bearing Shaft Fit	
	0 Degrees	60 Degrees 120 Degrees
	2.7555	2.7556 2.7556
● 49.	Opposite Drive End Bearing Shaft Fit Condition	(F) Fail
	Too small	
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
● 52.	Drive End - Endbell Bearing Fit Condition	(P) Pass
53.	Opposite Drive End - Endbell Bearing Fit	
	0 Degrees	60 Degrees 120 Degrees
● 54.	Opposite Drive End - Endbell Bearing Fit Condition	(P) Pass

55. Bearing Cap Condition

Drive End Bearing Cap
pass

Opposite Drive End Bearing Cap
pass



56. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

57. List Machine Work Needed Below

Ode shaft bearing journal.

58. Technician

Terrence Holland

A handwritten signature in black ink, appearing to read 'Terrence Holland', is written across the line.

Root Cause of Failure

59. Failure locations

Windings/ode shaft bearing journal.

60. Root cause of failure

Electrical Overload.