

LR Motor Shop Repairs

Job Number 100731

Prepared for Searcy Water and Sewer System (11242)

300 N. Elm Street Searcy AR 72145

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AC Recondition - Rev. 2: 40115281

1.0



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AC Recondition As Found

Searcy Water and Sewer System (11242)

300 N. Elm Street Searcy, AR 72145

Serial Number:

AC Recondition - Rev. 2

MOTOR SHOP LR Location:

40115281 Description: 7.5HP GE 1800RPM L213TP10

Hi-Speed Job Number:	100731
Manufacturer:	GE
Product Number:	5KE213DTT6005
Serial Number:	40115281
HP/kW:	7.5 (HP)
RPM:	1760 (RPM)
Frame:	L213TP10
Voltage:	230 / 460
Current:	19.4/9.7
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	WPI
J-box Included:	Complete
Coupling/Sheave:	Brake
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 1 - High

4 - Good

Overall Condition

- 1. Report Date
- Nameplate Picture



Photos of all six sides of the machine.

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- 4. Describe the Overall Condition of the Equipment as Received
- 5. Distance from the end of the shaft to the Coupling/Sheave

Initial Mechanical/Electrical

- 6. Does Shaft Turn Freely?
- 7. Does Shaft Have Visible Damage?
- 8. Assembled Shaft Runout
- 9. Assembled Shaft End Play
- 10. Air Gap Variation <10%
- 11. Lead Condition

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12.	Lead Length			
13.	Frame Condition			
14.	Fan Condition			
15.	Broken or Missing Components			
Initial	Electrical Inspection			
16.	Insulation Resistance/Megger			
17.	Winding Resistance			
	1-2	1-3	2-3	
18.	Perform Surge Test			(F) Fail





19.	Number of Stator Slots	48 Megohms
20.	Stator Condition	rewind
Mecha	anical Inspection	
21.	Drive End Bearing Number-	6209
22.	Drive End Bearing Qty.	1
23.	Drive End Bearing Type	(Ball) Ball Bearing
24.	Drive End Lubrication Type	(Grease) Grease Lubricated
25.	Drive End Bearing Insulation or Grounding Device?	no
26.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	no
27.	Drive End Bearing Condition	
28.	Opposite Drive End Bearing Number-	7309



29. Opposite Drive End Bearing Qty.

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30.	Opposite Drive End Bearing Type	(Thrust) Thrust
31.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
32.	Opposite Drive End Bearing Insulation or Grounding Device?	
33.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	
34.	Opposite Drive End Bearing Condition	
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	
39.	Number of Rotor Bars	
40.	Rotor Condition	



41. List the Parts needed for the Repair Below

42. Signature of Technician that Disassembled Motor

RW



Mechanical Fits- Rotor

43. Shaft Runout

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
1.722	1.772	1.772



• 4	48. Drive End Bearing Shaft Fit Condition			(P) Pass	
4	49. Opposite Drive End Bearing Shaft Fit				
		0 Degrees	60 Degrees	120 Degrees	
		1.7711	1.7711	1.7711	



	50.	50. Opposite Drive End Bearing Shaft Fit Condition		(P) Pass
	51.	Shaft Air Seal Fits		
		Drive End Air Seal	Opposite Drive End Air Seal	
N	lecha	anical Fits- Bearing Housings		

52.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	3.3471	3.1471	3.3471



5 3	53. Drive End - Endbell Bearing Fit Condition			(P) Pass
54	54. Opposite Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	3.9373	3.9373	3.9373	



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



57. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

58. List Machine Work Needed Below

59. Technician

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Root Cause of Failure

60. Failure locations

DE

61. Root cause of failure

DE BEARING FAILED CAUSED THE ROTOR TO DRAG THE IRON which burnt the top sticks



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