



KEEPING YOUR FACILITY UP TO SPEED
— EVERY DAY SINCE 1946 —

LR Motor Shop Repairs

Job Number 104726

Prepared for George's

1810 S. ST LOUIS STREET
Batesville AR 72501

Table of Contents



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

AC Inspection as Found

George's
1810 S. ST LOUIS STREET
Batesville, AR 72501

FolderID: 104726
FormID: 24702844

AC Inspection - Rev. 2

Location: LR MOTOR SHOP

Serial Number:

Description: LEESON MR PUMP COMBO
NO MODEL OR SERIAL#

Hi-Speed Job Number: 104726

Manufacturer: Other

HP/kW: 40 (HP)

RPM: 3600 (RPM)

Frame: 324-6JM

Voltage: 230 / 460

Current: 120/60

Phase: Three

Hz: 60 (Hz)

Enclosure: TEFC

of Leads: 12

J-box Included: Complete

Coupling/Sheave: Propeller

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final

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: ● 3 - High ● 13 - Good

Overall Condition

1. Report Date

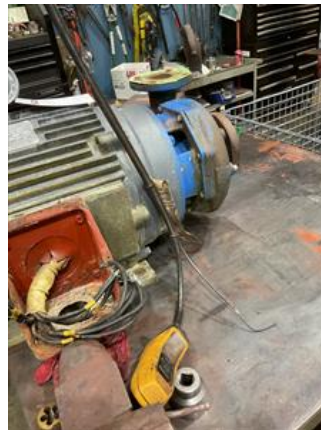
06/16/2025

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2. Nameplate Picture



3. Photos of all six sides of the machine.





4. Describe the Overall Condition of the Equipment as Received		
<i>Dirty but serviceable</i>		
☒	5. Is this a UL Listed Motor	(No) No
☒	6. Is the motor water cooled or can be pressure checked before teardown	(No) No
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	0.0004 Inches

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11. Assembled Shaft End Play	0 inches
12. Air Gap Variation <10%	
13. Lead Condition	(P) Pass



14. Distance from the end of the shaft to the Coupling/Sheave	inches
15. Lead Length	18 Inches
16. Does it have Lugs?, If so what is the Stud Size?	(No) No
17. Lead Numbers	1-12
18. Are the Leads insulated with Chico or other material	(No) No
19. Frame Condition	pass
20. Fan Condition	(F) Fail



21. Does motor have internal fan?	(No) No
22. Broken or Missing Components	none

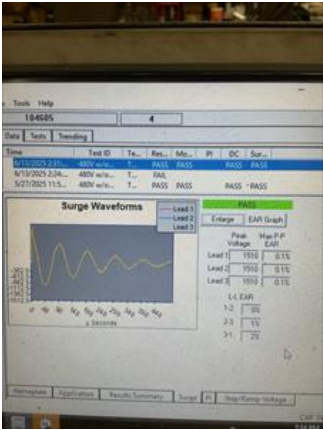
Initial Electrical Inspection

23. Insulation Resistance/Megger			7850 Megohms
24. Winding Resistance			
1-2	1-3	2-3	
0.183	0.180	0.186	

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25. Perform Surge Test

(P) Pass



26. Number of Stator Slots

36

27. Stator Condition

wash and dry



28. Stator Thermistors/Ohms

29. Stator Overloads/Ohms

Mechanical Inspection

30. Drive End Bearing Brand

FAG

31. Drive End Bearing Number-

6212ZZ C3



Aegis ring shaft size 2.935

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32. Drive End Bearing Qty.	1
33. Drive End Bearing Type	(Ball) Ball Bearing
34. Drive End Lubrication Type	(Grease) Grease Lubricated
35. Drive End Bearing Insulation or Grounding Device?	
36. Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring
37. Drive End Bearing Condition	
 <i>Axial load and some frosting Aegis shaft size 2.935</i>	



38. Opposite Drive End Bearing Brand	FAG
39. Opposite Drive End Bearing Number-	6212ZZ C3

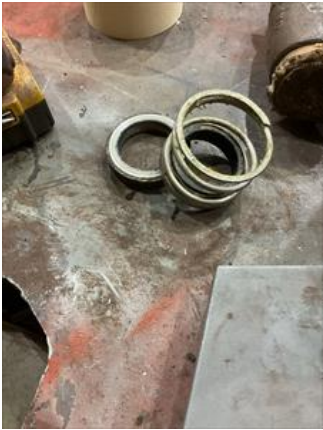


40. Opposite Drive End Bearing Qty.	1
41. Opposite Drive End Bearing Type	(Ball) Ball Bearing
42. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
43. Opposite Drive End Bearing Insulation or Grounding Device?	
44. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring
45. Opposite Drive End Bearing Condition	
 <i>Normal wear</i>	



46. Drive End Seal

carbon ceramic



1.625. 2.375

47. Opposite Drive End Seal

Rotor Inspection	
48. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
49. Growler Test	(Pass) Pass
50. Number of Rotor Bars	28



51. Rotor Condition

pass

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52. List the Parts needed for the Repair Below

2-6212 ZZ C3 Bearings

53. Signature of Technician that Disassembled Motor

RW



Mechanical Fits- Rotor

54. Shaft Runout

0.0004 inches

55. Rotor Runout

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

56. Coupling Fit Closest to Bearing Housing

0 Degrees

90 Degrees

120 Degrees

57. Coupling Fit Closest to the end of the Shaft

0 Degrees

60 Degrees

120 Degrees

58. Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

2.3628

2.3628

2.3628

59. Drive End Bearing Shaft Fit Condition

(P) Pass



60. Opposite Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

2.3626

2.3626

2.3626

61. Opposite Drive End Bearing Shaft Fit Condition

(P) Pass



62. Shaft Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

Pass

Mechanical Fits- Bearing Housings

63. Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

4.3311

4.3311

4.3311

64. Drive End - Endbell Bearing Fit Condition

(P) Pass



65. Opposite Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

4.3314

4.3314

4.3314



67. Bearing Cap Condition

Drive End Bearing Cap

Opposite Drive End Bearing Cap

 Pass

68. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

 Pass

69. List Machine Work Needed Below

None

70. Technician

RW

 Co sign: CRW**Root Cause of Failure**

71. Failure locations

Seal and bearings

72. Root cause of failure

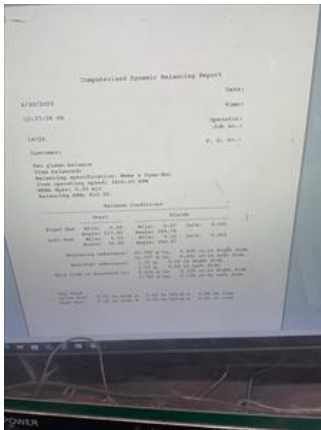
Over greased bearings and old seal

Dynamic Balance Report

73. Rotor Weight and Balance Grade

Rotor Weight

Balance Grade



74. Initial Balance Readings

Drive End

Opposite Drive End

.44**.53**

75. Final Balance Readings

Drive End

Opposite Drive End

0.07**0.12**

76. Technician

RW

Assembly

77. QC Check All Parts for Cleanliness Prior to Assembly

RW

78. Photograph All Major Components prior to assembly

(Complete) Complete



79. Final Insulation Resistance Test

70,500 Megohms

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Printed on 7/1/2025

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1.11



80. Assembled Shaft Endplay	inches	
81. Assembled Shaft Runout	0.0004 inches	
82. Test Run Voltage		
Volts	Volts	Volts
3599 Rpm		



Co sign TRH

83. Test Run Amperage		
Amps	Amps	Amps
10.3	9.800000000000001	10



84. Drive End Vibration Readings - Inches Per Second		
Horizontal	Vertical	Axial
0.02	0.02	0.02
85. Opposite Drive End Vibration Readings - Inches Per Second		
Horizontal	Vertical	Axial
0.03	0.04	0.02
86. Ambient Temperature - Fahrenheit		
Na		
87. Drive End Bearing Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes
Na		
88. Opposite Drive End Bearing Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes
Na		
89. Document Final Condition with Pictures after paint		



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90. Final Pics and QC Review

RW

A large, stylized handwritten signature in black ink, appearing to be 'RL' followed by a long diagonal stroke.

Co sign. TRH



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