



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

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AC Inspection as Found - *LR MOTOR SHOP*

AC Inspection - Rev. 2

1.0

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Printed on 6/16/2025

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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: MR PUMO 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 (Amps)

Phase: Three

Hz: 60 (Hz)

Enclosure: TEFC

of Leads: 12

J-box Included: Complete

Coupling/Sheave: Propeller

Bearing RTDs: No

Stator RTDs: No

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 ● 12 - Good

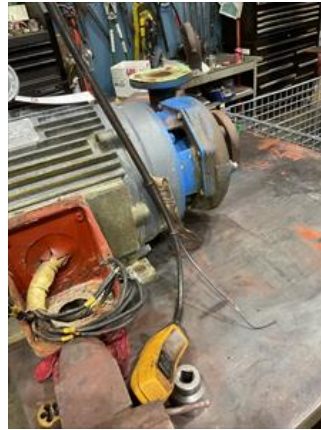
Overall Condition

- | | |
|----------------------|------------|
| 1. Report Date | 06/16/2025 |
| 2. Nameplate Picture | |



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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.	Distance from the end of the shaft to the Coupling/Sheave	inches
6.	Is this a UL Listed Motor	(No) No
7.	Is the motor water cooled or can be pressure checked before teardown	(No) No
Initial Mechanical/Electrical		
8.	Does Shaft Turn Freely?	(Y) Yes
9.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
10.	Does Shaft Have Visible Damage?	(No) No
11.	Assembled Shaft Runout	0.0004 Inches
12.	Assembled Shaft End Play	0 inches
13.	Air Gap Variation <10%	

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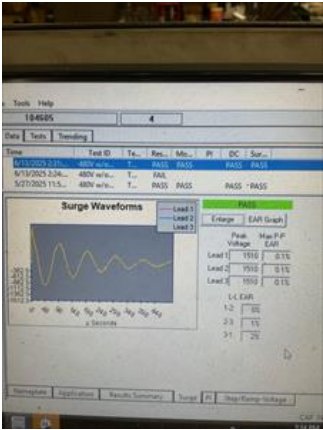
15. Lead Length	18 Inches
16. Does it have Lugs?, If so what is the Stud Size?	(No) No
17. Lead Numbers	1-12
18. Are the Leads insulated with Chico or other material	(No) No
19. Frame Condition	pass
20. Fan Condition	(F) Fail



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

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	
 Axial load and some frosting Aegis shaft size 2.935	



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	
 Normal wear	



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

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

75. Final Balance Readings

Drive End

Opposite Drive End

76. Technician

Assembly

77. QC Check All Parts for Cleanliness Prior to Assembly			
78. Photograph All Major Components prior to assembly			
79. Final Insulation Resistance Test			
80. Assembled Shaft Endplay			
81. Assembled Shaft Runout			
82. Test Run Voltage			
Volts	Volts	Volts	
83. Test Run Amperage			
Amps	Amps	Amps	
84. Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical	Axial	
85. Opposite Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical	Axial	
86. Ambient Temperature - Fahrenheit			
87. Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
88. Opposite Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
89. Document Final Condition with Pictures after paint			
90. Final Pics and QC Review			



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1. **APPLICABILITY.** The sale of any and all goods and/or services by Mock, Inc. d/b/a Hi-Speed Industrial Service ("Hi-Speed") shall be specifically conditioned upon and subject to the following terms and conditions which are incorporated by reference into any contracts and purchase orders with Hi-Speed, and which shall form and become a part of any agreement related thereto. Buyer's acceptance of any offer or quotation made by Hi-Speed for sale of any goods or services is expressly made subject to the terms and conditions set forth herein and to be so effective, Buyer need not sign or approve these Terms and Conditions to be bound hereunder provided a copy of same is provided to Buyer through any means. None of the terms and conditions contained herein may be added to, expanded, changed, modified, superseded or otherwise altered except as revised in writing and duly executed by Hi-Speed, and all orders received by Hi-Speed shall be governed only by the terms and conditions contained herein, notwithstanding any terms, conditions or provisions of any purchase order, release order, authorization or any other form issued by the Buyer. Hi-Speed hereby objects to any additional, modified, changed, deleted, altered or other terms and conditions not contained herein and notifies Buyer that any such terms or provisions are expressly rejected by Hi-Speed.
2. **PRICE.** All quoted prices shall remain firm and binding for a period of thirty (30) days from the date of quotation or for the period specifically stated in the quotation. The price for any and all goods and/or services ordered or approved by Buyer after thirty (30) days from the date of any quotation are subject to any increase in price that may occur after the expiration of thirty (30) days from the issuance of the quotation and the date the Buyer releases any shipment.
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5. **DELIVERY OF GOODS AND/OR SERVICES.** Unless otherwise identified in the quotation, all shipments are F.O.B. Hi-Speed's warehouse and the title to and all risk of loss with respect to any goods shipped shall pass to Buyer when such goods are delivered to the carrier at Hi-Speed's warehouse. Hi-Speed will use its best efforts to affect delivery by the date or dates specified in the quotation. However, Hi-Speed shall not be liable for delay in or failure to make shipment, or to perform services, by any identified date for any reason whatsoever, including but not limited to, causes beyond its reasonable control, such as strikes, fires, floods, epidemics, quarantines, restrictions, severe weather, embargos, acts of God, or public enemy, war, riot, delays in transportation or the inability to obtain necessary labor, materials or manufacturing facilities.
6. **DELIVERY SITE AND TIME FOR PERFORMANCE.** Hi-Speed and Buyer agree that time is of the essence for the purchase order and that Buyer shall fully cooperate with Hi-Speed in order to allow Hi-Speed full access to prosecute its work diligently and in an orderly manner. Buyer shall assist Hi-Speed in every way possible to avoid delaying, disrupting or interfering with the progress of Hi-Speed's work at the project site. In the event Hi-Speed's work is delayed, hindered, suspended, disrupted, re-sequenced or interfered with or rendered less efficient or more costly or adversely affected in any way as a result of acts or omissions of Buyer or other contractors or employees of Buyer or by any other reason beyond Hi-Speed's control and without the fault of Hi-Speed, then, in such event, Buyer shall be liable to Hi-Speed for any damages, additional costs, expenses, labor, materials, man hours, acceleration costs, overtime, additional jobsite overhead, extended home office overhead, and any and all other direct and indirect expenses of whatsoever nature or kind, caused in whole or in part, as a result of any of the above-referenced occurrences. Hi-Speed's project records will be the basis for computing the additional costs and damages of Hi-Speed's labor, materials, expenses and overhead related to such changes. BUYER WARRANTS THAT THE SITE FOR DELIVERY OR INSTALLATION OF ANY GOODS AND/OR FOR THE PERFORMANCE OF ANY SERVICES SHALL BE READY AND ADEQUATE FOR HI-SPEED'S DELIVERY OF GOODS AND/OR PERFORMANCE OF SERVICES AND THAT HI-SPEED SHALL HAVE FULL ACCESS THERETO, FREE OF ALL OBSTRUCTIONS. BUYER SHALL ASSUME ALL EXTRA COSTS ASSOCIATED WITH HI-SPEED'S INABILITY TO INSTALL ANY GOODS OR PERFORM ANY SERVICES AS A RESULT OF BUYER'S FAILURE TO COMPLY WITH THIS PROVISION. HI-SPEED MAY NOT INSPECT THE SITE PRIOR TO DELIVERY AND/OR INSTALLATION OF GOODS AND/OR PERFORMANCE OF SERVICES AND MAKES NO WARRANTY AS TO THE SUFFICIENCY OF THE SITE FOR THE DELIVERY AND/OR INSTALLATION OF GOODS AND/OR THE PERFORMANCE OF SERVICES AT SUCH SITE.
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8. **WARRANTIES.** Hi-Speed warrants that all goods shall conform in all material aspects to the goods identified in the quotation to Buyer and/or purchase order, and Hi-Speed makes to Buyer the manufacturer's express warranty for any goods sold to Buyer, which is offered by the manufacturer at the time of acceptance of any quotation by Buyer. This warranty is conditioned upon the installation, operation, and maintenance of the goods in accordance with the manufacturer's recommendations and/or standard industry practice and the goods at all times being operated or used under normal operating conditions for which they were designed. Hi-Speed, at its sole option, will repair or

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