



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

LR Motor Shop Repairs

Job Number 104806

Prepared for ARKANSAS INDUSTRIAL MACHINERY

3804 N. NONA ST
NORTH LITTLE ROCK AR 72118

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AC Inspection as Found - *LR MOTOR SHOP*

AC Inspection - Rev. 2: 1635203301

1.0

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Printed on 6/30/2025

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AC Inspection as Found
ARKANSAS INDUSTRIAL MACHINERY
3804 N. NONA ST
NORTH LITTLE ROCK, AR 72118

FolderID: 104806
FormID: 24935067

AC Inspection - Rev. 2

Location: LR MOTOR SHOP

Serial Number: 1635203301

Description: 150 HP WEG

Hi-Speed Job Number: 104806

Manufacturer: WEG

Product Number: 15AG020181045053343

Serial Number: 1635203301

HP/kW: 150 (HP)

RPM: 1785 (RPM)

Frame: 444/5TDZ

Voltage: 460

Current: 177 (Amps)

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.20

Enclosure: TEFC

of Leads: 6

J-box Included: Complete

Coupling/Sheave: None

Date Received: 06/27/2025

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final

Rewind: No



**Shaft Machined Fit Repairs
Required:** No

**Bearing Housing Machined
Fit Repairs Required:** Yes

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found:  **3 - High**  **6 - Good**

Overall Condition

1. Report Date

06/30/2025

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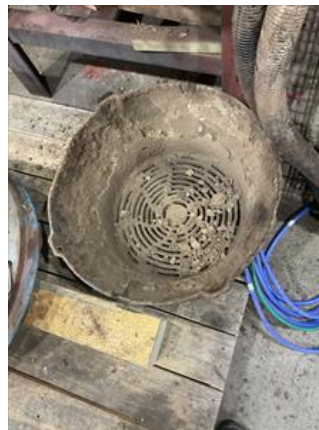
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1.0

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	
	<input type="checkbox"/> No	
6.	Is the motor water cooled or can be pressure checked before teardown	
	<input type="checkbox"/> No	
Initial Mechanical/Electrical		
<input checked="" type="radio"/>	7. Does Shaft Turn Freely?	(Y) Yes

8.	Does the shaft require T.I.R in Lathe to identify additional repairs?	
	 No	
9.	Does Shaft Have Visible Damage?	(No) No
10.	Assembled Shaft Runout	0.0002 Inches
11.	Assembled Shaft End Play	inches
12.	Air Gap Variation <10%	
13.	Lead Condition	(P) Pass
14.	Lead Length	60 Inches
15.	Does it have Lugs?, If so what is the Stud Size?	
	 Yes	
16.	Lead Numbers	
	 1-6	
17.	Are the Leads insulated with Chico or other material	
	 No	
18.	Frame Condition	
	 Pass	
19.	Fan Condition	(F) Fail



20.	Does motor have internal fan?	(NO) NO
21.	Broken or Missing Components	none
Initial Electrical Inspection		
22.	Insulation Resistance/Megger	7752 Megohms
23.	Winding Resistance	
	1-2	1-3
	0.0260	0.0259
		2-3
		0.0260

(P) Pass



26. Stator Condition

 Na

 Na

29. Drive End Bearing Brand

NSK

30. Drive End Bearing Number-

6319 C3



31. Drive End Bearing Qty.

1

32. Drive End Bearing Type

(Ball) Ball Bearing

33. Drive End Lubrication Type

(Grease) Grease Lubricated

34. Drive End Bearing Insulation or Grounding Device?

Na

35. Drive End Wavy Washer/Snap-Ring Other Retention Device?

Na

36. Drive End Bearing Condition

Frosting and axial load



37. Opposite Drive End Bearing Brand

NSK

38. Opposite Drive End Bearing Number-

6316 C3



39. Opposite Drive End Bearing Qty.	1
40. Opposite Drive End Bearing Type	(Ball) Ball Bearing
41. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
42. Opposite Drive End Bearing Insulation or Grounding Device?	
Na	
43. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring
44. Opposite Drive End Bearing Condition	metal fatigue and grease contamination
Aegis ring shaft size 3.6775	



45. Drive End Seal	Na
46. Opposite Drive End Seal	Na

Rotor Inspection

47. Rotor Type/Material

(Squirrel Aluminum) Squirrel
Cage Aluminum Die Cast



48. Growler Test

(Pass) Pass



49. Number of Rotor Bars

40

50. Rotor Condition

Pass

51. List the Parts needed for the Repair Below

1-6319 C3 bearing
2-6316 C3 bearing
Aegis ring shaft size 3.6775

52. Signature of Technician that Disassembled Motor

RW

Mechanical Fits- Rotor

53. Shaft Runout

0.0002 inches

54. Rotor Runout

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

55. Coupling Fit Closest to Bearing Housing

0 Degrees

90 Degrees

120 Degrees

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56. Coupling Fit Closest to the end of the Shaft			
0 Degrees	60 Degrees	120 Degrees	
57. Drive End Bearing Shaft Fit			
0 Degrees	60 Degrees	120 Degrees	
3.7407	3.7407	3.7407	
58. Drive End Bearing Shaft Fit Condition			(P) Pass



59. Opposite Drive End Bearing Shaft Fit			
0 Degrees	60 Degrees	120 Degrees	
3.1501	3.1501	3.1501	
60. Opposite Drive End Bearing Shaft Fit Condition			(P) Pass



61. Shaft Air Seal Fits	
Drive End Air Seal	Opposite Drive End Air Seal
<div> <div></div> <div>Pass</div> </div>	

Mechanical Fits- Bearing Housings

62. Drive End - Endbell Bearing Fit			
0 Degrees	60 Degrees	120 Degrees	
7.8746	7.8746	7.8746	

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64. Opposite Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

6.6953

6.6953

6.6954

65. Opposite Drive End - Endbell Bearing Fit Condition

(F) Fail

Resleeve



66. Bearing Cap Condition

Drive End Bearing Cap

Opposite Drive End Bearing Cap

Pass

67. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

Pass

68. List Machine Work Needed Below

Ode end bell bearing fit bad

69. Technician

RW

Co sign TRH

Root Cause of Failure			
70. Failure locations <i>Bearings and end bell</i>			
71. Root cause of failure <i>Found metal fatigue and grease contamination in ode bearing</i> <i>Frosting in de bearing needs aegis ring installed</i>			
Dynamic Balance Report			
72. Rotor Weight and Balance Grade			
Rotor Weight		Balance Grade	
73. Initial Balance Readings			
Drive End		Opposite Drive End	
74. Final Balance Readings			
Drive End		Opposite Drive End	
75. Technician			
Rewind			
76. THERMAL DETECTION EQUIPMENT FINAL TESTING - RTD'S/KLIXONS/THERMISTORS			
Mechanical Fits- Bearing Housings - Post Repair			
77. Drive End - Endbell Bearing Fit Post Repair			
0 Degrees		60 Degrees 120 Degrees	
78. Opposite Drive End - Endbell Bearing Fit Post Repair			
0 Degrees		60 Degrees 120 Degrees	
79. Bearing Cap Condition Post Repair			
Drive End Bearing Cap		Opposite Drive End Bearing Cap	
80. End Bell Air Seal Fits Post Repair			
Drive End Air Seal		Opposite Drive End Air Seal	
81. End Bell Repair Sign-off			
Assembly			
82. QC Check All Parts for Cleanliness Prior to Assembly			
83. Photograph All Major Components prior to assembly			
84. Final Insulation Resistance Test			
85. Assembled Shaft Endplay			
86. Assembled Shaft Runout			
87. Test Run Voltage			
Volts		Volts Volts	
88. Test Run Amperage			
Amps		Amps Amps	
89. Drive End Vibration Readings - Inches Per Second			
Horizontal		Vertical Axial	

90. Opposite Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical		Axial
91. Ambient Temperature - Fahrenheit			
92. Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes		15 Minutes
93. Opposite Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes		15 Minutes
94. Document Final Condition with Pictures after paint			
95. Final Pics and QC Review			
96. Was a Insulated bearing or end bell tested?			
97. Motor RPM			



STANDARD TERMS AND CONDITIONS FOR PURCHASE OF GOOD AND/OR SERVICES

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.
3. **SCOPE OF GOODS AND/OR SERVICES.** The goods and/or services provided by Hi-Speed pursuant to any quotation shall be limited exclusively to those goods and/or services expressly identified therein. Hi-Speed does not assume any responsibility and/or liability for the failure to provide any other goods and/or services not identified in any quotation. Modifications, additions or deletions to or from the scope referenced in any quotation shall only be effective if evidenced in writing and signed by Hi-Speed. The sale of any of all goods and/or services affected by such modification, addition or deletion shall be subject to these same Standard Terms and Conditions whether or not referenced therein.
4. **BILLING AND PAYMENT TERMS.** Hi-Speed shall invoice Buyer for all goods and/or services as same are rendered at the address listed on the quotation. Payments for all goods and/or services shall be due thirty (30) days from the date of the current invoice or as otherwise set forth in the quotation. Late payments are subject to a late fee of 5% of the total invoice amount. Recurring late payments may lead to a deposit requirement on future services or sale of goods. Buyer shall be liable to Hi-Speed for any and all fees and expenses incurred by Hi-Speed to collect any invoices or to enforce these Standard Terms and Conditions, including but not limited to, attorney's fees.
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.
7. **INSPECTION/ACCEPTANCE.** All goods and services ordered pursuant to any quotation shall be subject to inspection by Buyer after delivery or performance to determine conformity with the quotation and/or purchase order and Hi-Speed's advertised or published specifications. Buyer shall have a period of thirty (30) days from shipment of goods at the delivery destination specified in the quotation within which to inspect the goods for conformity with the quotation, order and/or Hi-Speed's advertised and published specifications and to provide Hi-Speed with written notice of any discrepancy or rejection. Buyer shall have a period of thirty (30) days following completion of any services within which to inspect the services for conformity with the quotation, purchase order and/or Hi-Speed's advertised and published specifications and to provide Hi-Speed with written notice of any discrepancy or rejection. If the goods delivered or services performed do not so conform, upon delivery of notice to Hi-Speed of any discrepancy, nonconformance or rejection, Hi-Speed shall have sixty (60) days to cure the alleged discrepancy and/or nonconformance. If Hi-Speed fails to cure in this time period, Buyer shall have the right to reject such goods or services. After the cure period, goods that have been delivered and rejected, in whole or in part, shall be returned to Hi-Speed. Buyer shall notify Hi-Speed and arrange for the return of the goods as required. Should such non-conforming services be rejected Hi-Speed shall, at its sole cost, re-perform the non-conforming services. Inspection or failure to inspect on any occasion shall not affect Buyer's rights under the warranty provisions herein.
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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11. **GOVERNING LAW AND JURISDICTION.** Any controversy arising out of any quotation, the purchase order, the goods sold or delivered, repair or replacement thereof, or any services provided pursuant to any quotation or any purchase order, or these Standard Terms and Conditions shall be governed by the laws of the state of Tennessee without regard to any choice of law provisions and any cause of action related in any manner thereto shall be brought only in the state or federal courts of Shelby County, Tennessee.
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13. **FORCE MAJEURE.** Neither party shall be responsible for any delay or failure in performance of any party of the quotation, purchase order or these Standard Terms and Conditions to the extent that such delays or failures are caused by fire, flood, earthquake, explosion, war, embargo, government requirement, civil or military authority, acts of God, or any other circumstances beyond its reasonable control and not involving any fault or negligence on the party affected ("Condition"). If any such Condition occurs, the party delayed or unable to perform shall promptly give written notice to the other party and, if such Condition remains at the end of thirty (30) days, the party affected by the other party's delay and inability to perform may elect to (i) terminate such order or part thereof, or (ii) suspend the order for the duration of the Condition, if the Buyer is the suspending party, buy elsewhere comparable material to be sold under the order and apply to any commitment the purchase price of such purchase, and resume performance of the order once the Condition ceases, with an option in the affected party to extend the period of this order up to the length of the time the Condition endures.
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16. **NO INDIVIDUAL LIABILITY.** Notwithstanding any other agreement to the contrary, the Buyer agrees that in no event will the Buyer hold and Hi-Speed owner, director, officer or employee personally liable for unintentional tortious conduct or conduct that constitutes the breach of any contract between Hi-Speed and the Buyer, even if the Hi-Speed owner, director, officer or employee is or could be construed to be a party to such contract.