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— EVERY DAY SINCE 1946 —

LR Motor Shop Repairs

Job Number 104574

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: *1PC31041EA663EBO*

1.0

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Printed on 5/20/2025

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

FolderID: 104574
FormID: 24369869

AC Inspection - Rev. 2

Location: LR MOTOR SHOP
Serial Number: 1PC31041EA663EBO
Description: 40 HP SIEMANS

Hi-Speed Job Number:	104574
Manufacturer:	Siemens
Product Number:	1AV3186A
Serial Number:	1PC31041EA663EBO
HP/kW:	40 (HP)
RPM:	3560 (RPM)
Voltage:	230 / 460
Current:	100/50 (Amps)
Phase:	Three
Hz:	60 (Hz)
Enclosure:	TEFC
# of Leads:	12
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	Yes
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: ● 1 - High ● 16 - Good

Overall Condition

1. Report Date

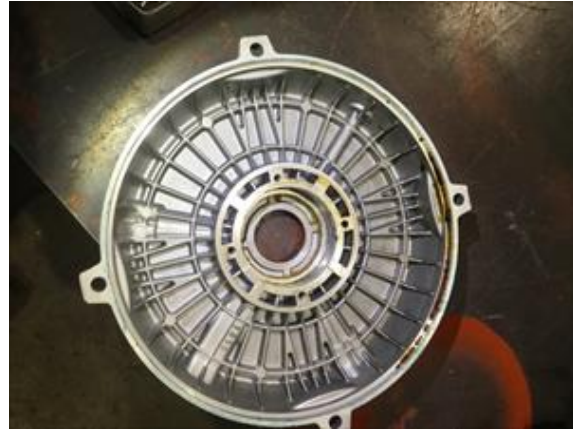
05/20/2025

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[illegible]

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4. Describe the Overall Condition of the Equipment as Received		
<i>Dirty and locked up</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		Inches
11. Assembled Shaft End Play		inches
12. Air Gap Variation <10%		
13. Lead Condition		(NA) Not Applicable
<i>Rewind</i>		
14. Lead Length		56 Inches
15. Does it have Lugs?, If so what is the Stud Size?		(No) No
16. Lead Numbers		T1-T12
17. Are the Leads insulated with Chico or other material		(No) No
18. Frame Condition		
19. Fan Condition		(P) Pass
20. Does motor have internal fan?		(No) No
21. Broken or Missing Components		
Initial Electrical Inspection		

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22.	Insulation Resistance/Megger	Megohms
23.	Winding Resistance	
	1-2	1-3 2-3
24.	Perform Surge Test	(NA) Not Applicable
	<i>Rewind</i>	
25.	Number of Stator Slots	36
26.	Stator Condition	
27.	Stator Thermistors/Ohms	
28.	Stator Overloads/Ohms	
Mechanical Inspection		
29.	Drive End Bearing Brand	
	<i>SKF</i>	
30.	Drive End Bearing Number-	NU208
31.	Drive End Bearing Qty.	1
32.	Drive End Bearing Type	(Roller) Roller Bearing
33.	Drive End Lubrication Type	(Oil) Oil Lubricated
34.	Drive End Bearing Insulation or Grounding Device?	
35.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring
36.	Drive End Bearing Condition	wear



37.	Opposite Drive End Bearing Brand	SKF
38.	Opposite Drive End Bearing Number-	6210-C4
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?	
43.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring

44. Opposite Drive End Bearing Condition

Normal wear



45. Drive End Seal seal kit

46. Opposite Drive End Seal

Rotor Inspection

47. Rotor Type/Material (Squirrel Aluminum) Squirrel
Cage Aluminum Die Cast

48. Growler Test (Pass) Pass

49. Number of Rotor Bars 22

50. Rotor Condition

Needs cleaned

51. List the Parts needed for the Repair Below

NU208
6210-C4
Seal kit

52. Signature of Technician that Disassembled Motor Cw

Mechanical Fits- Rotor

53. Shaft Runout 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

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

1.5753-1.5754-1.5754

58. Drive End Bearing Shaft Fit Condition (P) Pass

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59. Opposite Drive End Bearing Shaft Fit		
0 Degrees	60 Degrees	120 Degrees
<div> <div></div> 1.9690-1.9690-1.9690 </div>		
60. Opposite Drive End Bearing Shaft Fit Condition		(P) Pass
61. Shaft Air Seal Fits		
Drive End Air Seal	Opposite Drive End Air Seal	
Mechanical Fits- Bearing Housings		
62. Drive End - Endbell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
<div> <div></div> 3.1503-3.1502-3.1503 </div>		
63. Drive End - Endbell Bearing Fit Condition		(P) Pass
64. Opposite Drive End - Endbell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
<div> <div></div> 3.5436-3.5436-3.5436 </div>		
65. Opposite Drive End - Endbell Bearing Fit Condition		(P) Pass
66. Bearing Cap Condition		
Drive End Bearing Cap	Opposite Drive End Bearing Cap	
67. End Bell Air Seal Fits		
Drive End Air Seal	Opposite Drive End Air Seal	
68. List Machine Work Needed Below		
69. Technician		Cw
		
<div> <div></div> Co sign: DM </div>		
Root Cause of Failure		
70. Failure locations		
<i>Windings and bearings</i>		
71. Root cause of failure		
<i>Overload and wear</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		

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Rewind			
76.	Core Test Results - Watts loss per Pound		
	Pre-Burnout	Post Burnout	
77.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
78.	Post Rewind Electrical Test- Insulation Resistance		
79.	Post Rewind Polarization Index		
80.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
81.	Post Rewind Surge Test		
82.	Post Rewind Hi-Pot		
83.	Technician		
Assembly			
84.	QC Check All Parts for Cleanliness Prior to Assembly		
85.	Photograph All Major Components prior to assembly		
86.	Final Insulation Resistance Test		
87.	Assembled Shaft Endplay		
88.	Assembled Shaft Runout		
89.	Test Run Voltage		
	Volts	Volts	Volts
90.	Test Run Amperage		
	Amps	Amps	Amps
91.	Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
92.	Opposite Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
93.	Ambient Temperature - Fahrenheit		
94.	Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
95.	Opposite Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
96.	Document Final Condition with Pictures after paint		
97.	Final Pics and QC Review		



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

replace any defective or non-conforming goods in accordance with the applicable manufacturer's warranty. Warranty for any defective or incorrect parts is limited to the repair or replacement of those parts. Hi-Speed warrants that all services will conform in all material respects to the description of services identified in the quotation and will be performed in a good and workmanlike manner in accordance with industry practices and standards. Should the services be reasonably rejected or not conform with the foregoing warranties, Hi-Speed shall, at its sole cost, re-perform the defective or nonconforming services. Notwithstanding the foregoing, these warranties do not extend to goods or services to the extent that such goods have been subject to misuse, neglect or abuse not caused by Hi-Speed or have been used in violation of the approved written instructions furnished to Buyer. THE FOREGOING REPRESENTS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY HI-SPEED WITH RESPECT TO ALL GOODS SOLD AND IS IN LIEU OF ALL OTHER WARRANTIES EITHER EXPRESS OR IMPLIED. HI-SPEED EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE OR PURPOSE. BUYER WAIVES ANY CLAIM THAT THESE EXCLUSIONS OR LIMITATIONS DEPRIVE IT OF AN ADEQUATE REMEDY AT EQUITY OR LAW OR CAUSE THIS AGREEMENT TO FAIL IN ITS ESSENTIAL PURPOSE. BUYER SHALL BE ENTITLED TO NO OTHER REMEDY OTHER THAN AS SET FORTH HEREIN, REGARDLESS OF THE CLAIM OR CAUSE OF ACTION, WHETHER BASED IN CONTRACT, TORT, NEGLIGENCE, GOODS LIABILITY, STRICT LIABILITY OR OTHERWISE.

9. **LIMITATION OF DAMAGES.** HI-SPEED SHALL HAVE NO LIABILITY TO BUYER WITH RESPECT TO THE SALE OR DELIVERY OF ANY GOODS OR THE REPAIR THEREOF OR WITH RESPECT TO THE SALE OR PERFORMANCE OF ANY SERVICES, FOR LOST PROFITS, SPECIAL, CONSEQUENTIAL, EXEMPLARY, PUNITIVE OR INCIDENTAL DAMAGES OF ANY KIND OR NATURE WHETHER ARISING IN CONTRACT, TORT, GOODS LIABILITY OR OTHERWISE, EVEN IF HI-SPEED WAS ADVISED OF THE POSSIBILITY OF SUCH LOSS OR DAMAGES. HI-SPEED SHALL NOT BE LIABLE FOR ANY DAMAGES OR DELAYS CAUSED BY ANY FAILURE TO MAKE ANY DELIVERY OF GOODS BY ANY EXPECTED TIME OR DATE OR THE FAILURE TO PROVIDE OR COMPLETE ANY SERVICES BY ANY EXPECTED DATE OR TIME. IN NO EVENT SHALL HI-SPEED BE LIABLE TO BUYER FOR ANY DAMAGES WHATSOEVER IN EXCESS OF THE TOTAL PRICE PAID FOR ALL GOODS AND/OR SERVICES HEREUNDER OR REFERENCED IN ANY QUOTATION OR THE PURCHASE ORDER.
10. **SEVERABILITY.** The partial or complete invalidity of any provision of these Standard Terms and Conditions shall not affect the enforceability of the remainder of these Standard Terms and Conditions. If any provision is found to be invalid or unenforceable, that portion shall be modified to make it enforceable or shall be stricken and the remainder of these Standard Terms and Conditions shall enforced.
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.
12. **ABANDONED EQUIPMENT.** Hi-Speed requires that Buyer promptly pick up or provide shipment instructions for Buyer equipment or other Buyer property in Hi-Speed's possession. If equipment or other Buyer property is left with Hi-Speed and not picked up within six (6) months after Hi-Speed's final action related to the applicable property (e.g. evaluation, teardown, estimate, completion of services), Hi-Speed will consider such property abandoned and may dispose of it in accordance with applicable law. Buyer agrees to hold Hi-Speed harmless for any damage or claim for such abandoned property and acknowledges that Hi-Speed may discard or recycle it at Hi-Speed's sole and absolute discretion. Specifically, Hi-Speed may sell Buyer's abandoned property at a private or public sale and retain the proceeds to offset Hi-Speed's storage, inspection and servicing costs. For the avoidance of doubt, Hi-Speed reserves its statutory and other lawful liens for unpaid charges related to abandoned property.
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.
14. **NONWAIVER.** No course of dealing or failure of either party to strictly enforce any term, right, or condition of these Standard Terms and Conditions will be construed as a waiver of such term, right or condition. Any waiver by Hi-Speed will only be in writing and will waive no succeeding breach of a term, right or condition.
15. **ASSIGNMENT.** The rights and obligations of the parties shall neither be assigned nor delegated without the prior written consent of the other party. However, any party may assign or delegate its respective rights and obligations, in whole or in part, (i) to any subsidiary, (ii) pursuant to other financing, merger or reorganization or (iii) pursuant to any sale or transfer of substantially all of the assets of the assigning party. These Standard Terms and Conditions shall bind the heirs, successors and assigns of the parties hereto.
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.