

LR Motor Shop Repairs

Job Number 104252

Prepared for Arkansas Electric Coop. (11681)

17400 highway 365 south Little Rock AR 72206

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AC Inspection as Found - MOTOR SHOP LR

AC Inspection - Rev. 2: 07H383W361G1

1.0





AC Inspection as Found Arkansas Electric Coop. (11681)

17400 highway 365 south Little Rock, AR 72206

FolderID: 104252 FormID: 23680105

AC Inspection - Rev. 2

Location: MOTOR SHOP LR Serial Number: 07H383W361G1 Description:7 1/2 AMETEK

Hi-Speed Job Number:	104252
Manufacturer:	Other
Product Number:	511570
Serial Number:	07H383W361G1
HP/kW:	7.5 (HP)
RPM:	3450 (RPM)
Frame:	215TCZ
Voltage:	208-230/460
Current:	11.1 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	9
J-box Included:	Complete
Coupling/Sheave:	Propeller
Date Received:	03/14/2025
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Rewind:	No
Shaft Machined Fit Repairs Required:	Yes
Bearing Housing Machined Fit Repairs Required:	Yes
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: **3 - High**





9 - Good

Overall Condition

03/14/2025 1. Report Date

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2. Nameplate Picture





3. Photos of all six sides of the machine.









































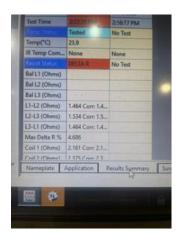
	4.	Describe the Overall Condition of the Equipment as Received Needs bearings, shaft fits repaired and endbell sleeved.	
	5.	Distance from the end of the shaft to the Coupling/Sheave	inches
	7	Has a shoulder	
In	itial	Mechanical/Electrical	
	6.	Does Shaft Turn Freely?	(Y) Yes
	7.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
	8.	Does Shaft Have Visible Damage?	(No) No
	9.	Assembled Shaft Runout	0.001 Inches
	10.	Assembled Shaft End Play	0 inches
	11.	Air Gap Variation <10%	
	-	Na	
	12.	Na Lead Condition	(P) Pass
	12. 13.		(P) Pass 8 Inches
		Lead Condition	
•	13. 14.	Lead Condition Lead Length	8 Inches
•	13. 14.	Lead Condition Lead Length Does it have Lugs?, If so what is the Stud Size?	8 Inches (No) No
•	13. 14. 15.	Lead Condition Lead Length Does it have Lugs?, If so what is the Stud Size? Lead Numbers	8 Inches (No) No 1-9
•	13. 14. 15. 16.	Lead Condition Lead Length Does it have Lugs?, If so what is the Stud Size? Lead Numbers Frame Condition	8 Inches (No) No 1-9 good
•	13. 14. 15. 16. 17.	Lead Condition Lead Length Does it have Lugs?, If so what is the Stud Size? Lead Numbers Frame Condition Fan Condition	8 Inches (No) No 1-9 good (P) Pass
• • • • • • • • • • • • • • • • • • •	13. 14. 15. 16. 17. 18.	Lead Condition Lead Length Does it have Lugs?, If so what is the Stud Size? Lead Numbers Frame Condition Fan Condition Does motor have internal fan?	8 Inches (No) No 1-9 good (P) Pass (No) No

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21. Winding Resistance

1-2 1-3 2-3

In pic



22. Perform Surge Test

(P) Pass

Basket wound. Pulls good amps on test panel



23.	Number of Stator Slots	36
24.	Stator Condition	Good
25.	Stator Thermistors/Ohms	
-	Na	
26.	Stator Overloads/Ohms	
-	Na	
Mech	anical Inspection	
27.	Drive End Bearing Brand	koyo
28.	Drive End Bearing Number-	6309rd
29.	Drive End Bearing Qty.	1
30.	Drive End Bearing Type	(Ball) Ball Bearing
31.	Drive End Lubrication Type	(Grease) Grease Lubricated
32.	Drive End Bearing Insulation or Grounding Device?	
-	No	
33.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	none
34.	Drive End Bearing Condition	worn

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35.	Opposite Drive End Bearing Brand		nachi		
36.	Opposite Drive End Bearing Number-		6206nse		
37.	Opposite Drive End Bearing Qty.				
38.	Opposite Drive End Bearing Type	(Ball) Ball Bearing			
39.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated			
40.	Opposite Drive End Bearing Insulation	•	none		
41.	Opposite Drive End Wavy Washer/Sna	no			
42.	Opposite Drive End Bearing Condition		worn		
43.	Drive End Seal		none		
44.	Opposite Drive End Seal				
,	Na				
	Inspection				
45.	Rotor Type/Material		(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast		
46.	Growler Test		(Pass) Pass		
47.			28		
48.	Rotor Condition		good		
49.	List the Parts needed for the Repair Be	low			
	6309 2rsr 6206 2rsr		_		
50.	Signature of Technician that Disassemi	oled Motor	Trevor Hall		
_	////				
	anical Fits- Rotor				
51.	Shaft Runout		0.001 inches		
51.	Shaft Runout Rotor Runout	D. J. J. D. J.			
51.	Shaft Runout Rotor Runout	Rotor Body	0.001 inches Opposite Drive End Bearing		
51.	Shaft Runout Rotor Runout	Rotor Body			
51.	Shaft Runout Rotor Runout Drive End Bearing Fit	•			
51. 52.	Shaft Runout Rotor Runout Drive End Bearing Fit Na Coupling Fit Closest to Bearing Housing	g	Opposite Drive End Bearing		
51. 52.	Shaft Runout Rotor Runout Drive End Bearing Fit Na Coupling Fit Closest to Bearing Housing 0 Degrees	•			
51. 52. 53.	Shaft Runout Rotor Runout Drive End Bearing Fit Na Coupling Fit Closest to Bearing Housing 0 Degrees	g 90 Degrees 1.3746	Opposite Drive End Bearing 120 Degrees		
51. 52. 53.	Shaft Runout Rotor Runout Drive End Bearing Fit Na Coupling Fit Closest to Bearing Housing 0 Degrees 1.3746 Coupling Fit Closest to the end of the S	g 90 Degrees 1.3746	Opposite Drive End Bearing 120 Degrees		
51. 52. 53.	Shaft Runout Rotor Runout Drive End Bearing Fit Na Coupling Fit Closest to Bearing Housing 0 Degrees 1.3746 Coupling Fit Closest to the end of the S 0 Degrees	g 90 Degrees 1.3746 Ihaft	Opposite Drive End Bearing 120 Degrees 1.3746		
51. 52. 53.	Shaft Runout Rotor Runout Drive End Bearing Fit Na Coupling Fit Closest to Bearing Housing 0 Degrees 1.3746 Coupling Fit Closest to the end of the S 0 Degrees	g 90 Degrees 1.3746 haft 60 Degrees	Opposite Drive End Bearing 120 Degrees 1.3746 120 Degrees		
51. 52. 53.	Shaft Runout Rotor Runout Drive End Bearing Fit Na Coupling Fit Closest to Bearing Housing 0 Degrees 1.3746 Coupling Fit Closest to the end of the S 0 Degrees 1.3746 Drive End Bearing Shaft Fit	g 90 Degrees 1.3746 haft 60 Degrees	Opposite Drive End Bearing 120 Degrees 1.3746 120 Degrees		
51. 52. 53.	Shaft Runout Rotor Runout Drive End Bearing Fit Na Coupling Fit Closest to Bearing Housing 0 Degrees 1.3746 Coupling Fit Closest to the end of the S 0 Degrees 1.3746 Drive End Bearing Shaft Fit 0 Degrees	g 90 Degrees 1.3746 haft 60 Degrees 1.3746	Opposite Drive End Bearing 120 Degrees 1.3746 120 Degrees 1.3746		
51. 52. 53. 54. 55.	Shaft Runout Rotor Runout Drive End Bearing Fit Na Coupling Fit Closest to Bearing Housing 0 Degrees 1.3746 Coupling Fit Closest to the end of the S 0 Degrees 1.3746 Drive End Bearing Shaft Fit 0 Degrees 1.7716 Drive End Bearing Shaft Fit Condition	g 90 Degrees 1.3746 chaft 60 Degrees 1.3746	Opposite Drive End Bearing 120 Degrees 1.3746 120 Degrees 1.3746		
51. 52. 53. 54.	Shaft Runout Rotor Runout Drive End Bearing Fit Na Coupling Fit Closest to Bearing Housing 0 Degrees 1.3746 Coupling Fit Closest to the end of the S 0 Degrees 1.3746 Drive End Bearing Shaft Fit 0 Degrees 1.7716 Drive End Bearing Shaft Fit Condition Undersized	g 90 Degrees 1.3746 chaft 60 Degrees 1.3746	Opposite Drive End Bearing 120 Degrees 1.3746 120 Degrees 1.3746 120 Degrees 1.7717		
51. 52. 53. 54.	Shaft Runout Rotor Runout Drive End Bearing Fit Na Coupling Fit Closest to Bearing Housing 0 Degrees 1.3746 Coupling Fit Closest to the end of the S 0 Degrees 1.3746 Drive End Bearing Shaft Fit 0 Degrees 1.7716 Drive End Bearing Shaft Fit Condition Undersized Opposite Drive End Bearing Shaft Fit	g 90 Degrees 1.3746 Thaft 60 Degrees 1.3746 60 Degrees 1.7717	Opposite Drive End Bearing 120 Degrees 1.3746 120 Degrees 1.3746 120 Degrees 1.7717 (F) Fail		
51. 52. 53. 54.	Shaft Runout Rotor Runout Drive End Bearing Fit Na Coupling Fit Closest to Bearing Housing 0 Degrees 1.3746 Coupling Fit Closest to the end of the S 0 Degrees 1.3746 Drive End Bearing Shaft Fit 0 Degrees 1.7716 Drive End Bearing Shaft Fit Condition Undersized Opposite Drive End Bearing Shaft Fit 0 Degrees	9 90 Degrees 1.3746 chaft 60 Degrees 1.3746 60 Degrees 1.7717	Opposite Drive End Bearing 120 Degrees 1.3746 120 Degrees 1.3746 120 Degrees 1.7717 (F) Fail		
51. 52. 53. 54.	Shaft Runout Rotor Runout Drive End Bearing Fit Na Coupling Fit Closest to Bearing Housing 0 Degrees 1.3746 Coupling Fit Closest to the end of the S 0 Degrees 1.3746 Drive End Bearing Shaft Fit 0 Degrees 1.7716 Drive End Bearing Shaft Fit Condition Undersized Opposite Drive End Bearing Shaft Fit 0 Degrees	g 90 Degrees 1.3746 thaft 60 Degrees 1.3746 60 Degrees 1.7717 60 Degrees 1.1812	Opposite Drive End Bearing 120 Degrees 1.3746 120 Degrees 1.3746 120 Degrees 1.7717 (F) Fail		

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59.	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
	good	good		
Mecha	anical Fits- Bearing Housings			
60.	Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	3.9376	3.9375	3.9376	
6 1.	Drive End - Endbell Bearing Fit Condi	tion		(P) Pass
62.	Opposite Drive End - Endbell Bearing	Fit		
	0 Degrees	60 Degrees	120 Degrees	
	2.4418	2.4419	2.4422	
63.	Opposite Drive End - Endbell Bearing	Fit Condition		(F) Fail
-	Oversized			
64.	Bearing Cap Condition			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	good			
65.	End Bell Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
	good	good		
66.	List Machine Work Needed Below			
	Both shaft fits, opposite drive endbell			
67.	Technician			Trevor Hall
	/////			
/				
Root	Cause of Failure			
68.	Failure locations			
	Shaft fits, bearings and opposite drive	endbell		
69.	Root cause of failure			
	Normal wear			



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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. <u>DELIVERY OF GOODS AND/OR SERVICES.</u> 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.
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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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- 9. <u>LIMITATION OF DAMAGES.</u> 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. <u>SEVERABILITY.</u> 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, earth quake, 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. <u>NONWAIVER.</u> 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.