



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

LR Motor Shop Repairs

**Job Number 104852**

Prepared for HARRISON ENERGY PARTNERS

1501 WESTPARK DR  
LITTLE ROCK AR 72204

# Table of Contents

AC Inspection as Found - *MOTOR SHOP LR*

AC Inspection - Rev. 2

**1.0**

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*Printed on 7/15/2025*

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Hi-Speed Industrial Service  
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901-873-5300

**AC Inspection as Found**  
**HARRISON ENERGY PARTNERS**  
1501 WESTPARK DR  
LITTLE ROCK, AR 72204

FolderID: 104852  
FormID: 25131790

**AC Inspection - Rev. 2**

Location: MOTOR SHOP LR

Serial Number:

Hi-Speed Job Number: 104852

Manufacturer: Emerson

Serial Number: HVW10EK9C

HP/kW: 10 (HP)

RPM: 1785 (RPM)

Frame: 256T

Voltage: 460

Current: 12.6 (Amps)

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.15

Enclosure: TENV

# of Leads: 6

J-box Included: Complete

Coupling/Sheave: None

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Teardown Inspection

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: ● 1 - High ● 7 - Good

**Overall Condition**

1. Report Date

**07/15/2025**

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1.0

## 2. Nameplate Picture



3. Photos of all six sides of the machine.



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4.	Describe the Overall Condition of the Equipment as Received	
	<i>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
<b>Initial Mechanical/Electrical</b>		
<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) NO
9.	Does Shaft Have Visible Damage?	(No) No
10.	Assembled Shaft Runout	Inches
<input type="radio"/> Na		
11.	Assembled Shaft End Play	inches
<input type="radio"/> Na		
12.	Air Gap Variation <10%	
<input type="radio"/> Na		

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14. Lead Length	10 Inches
15. Does it have Lugs?, If so what is the Stud Size?	(NO) NO
16. Lead Numbers	11-12-13. 1-2-3
17. Are the Leads insulated with Chico or other material	(YES) YES
18. Frame Condition	pass
19. Fan Condition	(N) NA
20. Does motor have internal fan?	(NO) NO
21. Broken or Missing Components	bolts
<b>Initial Electrical Inspection</b>	
22. Insulation Resistance/Megger	Megohms

Date	7/15/2025	7/15/2025	5/1/2025
Test Time	8:39:51 AM	8:29:56 AM	2:13:44 PM
Max Delta R %	0.339	0.303	
Coil 1 (Ohms)	10.378 Corr: 1.4...	1.453 Corr: 1.4...	
Coil 2 (Ohms)	10.404 Corr: 1.4...	1.461 Corr: 1.4...	
Coil 3 (Ohms)	10.447 Corr: 1.4...	1.461 Corr: 1.4...	
Megohms Stat.	PASS	PASS	No Test
Volts (V)	501	494	
Hz(A)	0.0436	0.0436	
Hz(B)	7634	7527	
Hz(C)	2961	2922	
Winding Temp.	No Test	No Test	No Test

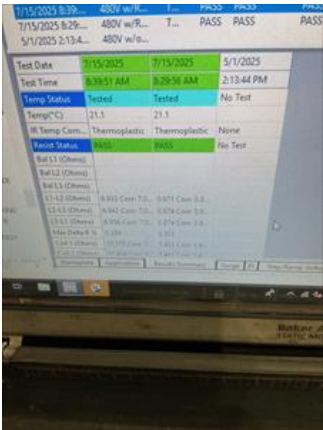


23. Winding Resistance

1-2

1-3

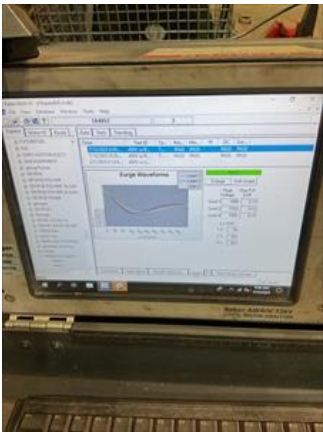
2-3



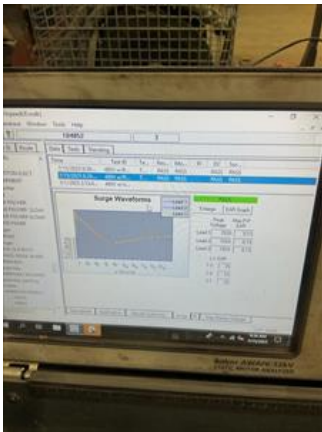
Low speed and high speed

24. Perform Surge Test

(P) Pass



Low speed



High speed

25. Number of Stator Slots

48

26. Stator Condition

wash and dry



27. Stator Thermistors/Ohms

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Na

28. Stator Overloads/Ohms

Na

### Mechanical Inspection

29. Drive End Bearing Brand

SKF

30. Drive End Bearing Number-

6309 2RS



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

Axial load



37. Opposite Drive End Bearing Brand

SKF

38. Opposite Drive End Bearing Number-

6207 2RS

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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?	Wavy washer
44. Opposite Drive End Bearing Condition	
<div> <div></div> <div>Normal wear</div> </div>	




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	clean up	
51.	List the Parts needed for the Repair Below		
	6309 2RS		
	6207 2RS BEARING		
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
	Na		
55.	Coupling Fit Closest to Bearing Housing		
	0 Degrees	90 Degrees	120 Degrees
	1.625	1.625	1.625

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56. Coupling Fit Closest to the end of the Shaft		
0 Degrees	60 Degrees	120 Degrees
1.625	1.625	1.625



57. Drive End Bearing Shaft Fit		
0 Degrees	60 Degrees	120 Degrees
1.772	1.772	1.772

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



59. Opposite Drive End Bearing Shaft Fit		
0 Degrees	60 Degrees	120 Degrees
1.3784	1.3784	1.3784

60. Opposite Drive End Bearing Shaft Fit Condition	(P) Pass
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#### 61. Shaft Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

Pass

### Mechanical Fits- Bearing Housings

#### 62. Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

3.9377

3.9377

3.9377

#### 63. Drive End - Endbell Bearing Fit Condition

(P) Pass



#### 64. Opposite Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

2.835

2.835

2.835



66. Bearing Cap Condition

Drive End Bearing Cap

Opposite Drive End Bearing Cap

Na

67. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

**pass**

68. List Machine Work Needed Below

*None*

69. Technician

RW

Co sign TRH

**Root Cause of Failure**

70. Failure locations

*Bearings*

71. Root cause of failure

*Water contamination rust***Rewind**72. THERMAL DETECTION EQUIPMENT FINAL TESTING -  
RTD'S/KLIXONS/THERMISTORS**Assembly**

73. Was a Insulated bearing or end bell tested?

74. Motor RPM



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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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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.
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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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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.
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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.