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— EVERY DAY SINCE 1946 —

LR Motor Shop Repairs

**Job Number 102406**

Prepared for Ryerson (10858)

7701 Lindsey rd  
Little rock ar 72206

# Table of Contents

AC Inspection as Found - *MOTOR SHOP LR*

AC Inspection - Rev. 2: *E0807/5152657*

**1.0**

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Hi-Speed Industrial Service  
7030 Ryburn Dr  
Millington, Tn 38053  
901-873-5300

## AC Inspection as Found

Ryerson (10858)

7701 Lindsey rd  
Little rock, ar 72206

FolderID: 102406  
FormID: 19183260

### AC Inspection - Rev. 2

Location: MOTOR SHOP LR

Serial Number: E0807/5152657

Description: 45KW SIEMENS 3600RPM 200L

Hi-Speed Job Number: 102406

Manufacturer: Siemens

Product Number: 1LA9209-2AA99-ZT19

Serial Number: E0807/5152657

HP/kW: 45 (kW)

RPM: 3570 (RPM)

Frame: 200L

Voltage: 460

Current: 72

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.19

Enclosure: TEFC

# of Leads: 6

J-box Included: Complete

Coupling/Sheave: Gear

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: ● 4 - High ● 8 - Good

### Overall Condition

1. Report Date

02/06/2024

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## 2. Nameplate Picture

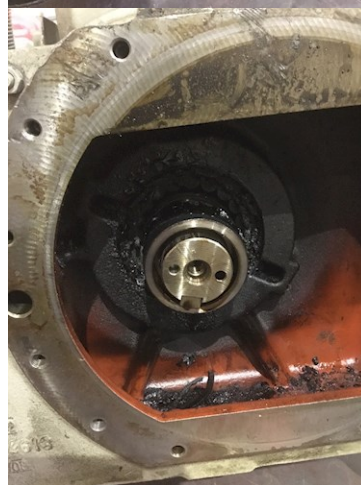


## 3. Photos of all six sides of the machine.











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1.5








4. Describe the Overall Condition of the Equipment as Received		
<i>Dirty</i>		
5. Distance from the end of the shaft to the Coupling/Sheave		inches
<i>Flush</i>		
Initial Mechanical/Electrical		
6. Does Shaft Turn Freely?		(No) No
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		Inches
<i>Na</i>		
10. Assembled Shaft End Play		inches
<i>Na</i>		
11. Air Gap Variation <10%		
<i>Na</i>		
12. Lead Condition		(P) Pass
13. Lead Length		54 Inches
14. Lead Numbers		T1-T6
15. Frame Condition		pass
16. Fan Condition		(P) Pass



17. Broken or Missing Components		na
18. Does it have Lugs?, If so what is the Stud Size?		(No) No

Initial Electrical Inspection

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19.	Insulation Resistance/Megger	Megohms
	Na	
20.	Winding Resistance	
	1-2	1-3 2-3
	Na	
21.	Perform Surge Test	(NA) Not Applicable
	Blown in slot	
22.	Number of Stator Slots	36
23.	Stator Condition	pass
24.	Stator Thermistors/Ohms	
	Na	
25.	Stator Overloads/Ohms	
	Na	
<b>Mechanical Inspection</b>		
26.	Drive End Bearing Brand	na
		
27.	Drive End Bearing Number-	NU212
28.	Drive End Bearing Qty.	1
29.	Drive End Bearing Type	(Roller) Roller Bearing
30.	Drive End Lubrication Type	(Oil) Oil Lubricated
31.	Drive End Bearing Insulation or Grounding Device?	na
32.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring



## 33. Drive End Bearing Condition



roller cage failed



## 34. Opposite Drive End Bearing Brand

SKF



## 35. Opposite Drive End Bearing Number-

6212

## 36. Opposite Drive End Bearing Qty.

1

## 37. Opposite Drive End Bearing Type

(Ball) Ball Bearing

## 38. Opposite Drive End Lubrication Type

(Grease) Grease Lubricated

## 39. Opposite Drive End Bearing Insulation or Grounding Device?

na

## 40. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?


snap ring

## 41. Opposite Drive End Bearing Condition


☐ Normal wear

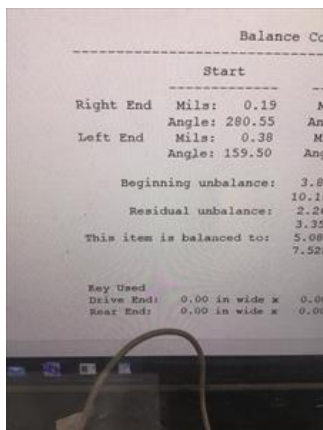
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42.	Drive End Seal			failed
	Needs new seal kit			
43.	Opposite Drive End Seal			slinger needs replaced
<b>Rotor Inspection</b>				
44.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast		
45.	Growler Test	(Pass) Pass		
46.	Number of Rotor Bars	23		
47.	Rotor Condition	pass needs cleaning		
48.	List the Parts needed for the Repair Below	NU212 6212 Seal kit Recommend new drive gear		
49.	Signature of Technician that Disassembled Motor			Cw
				
<b>Mechanical Fits- Rotor</b>				
50.	Shaft Runout	0.001 inches		
51.	Rotor Runout			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
	Na			
52.	Coupling Fit Closest to Bearing Housing			
	0 Degrees	90 Degrees	120 Degrees	
	Na			
53.	Coupling Fit Closest to the end of the Shaft			
	0 Degrees	60 Degrees	120 Degrees	
	Na			
54.	Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	2.3629	2.3629	2.3628	
55.	Drive End Bearing Shaft Fit Condition	(P) Pass		
56.	Opposite Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	2.3623	2.3622	2.3623	
57.	Opposite Drive End Bearing Shaft Fit Condition	(P) Pass		
58.	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
	Na			
<b>Mechanical Fits- Bearing Housings</b>				
59.	Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	4.3319	4.3317	4.3321	

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60. Drive End - Endbell Bearing Fit Condition	(P) Pass
61. Opposite Drive End - Endbell Bearing Fit	
0 Degrees	60 Degrees
4.3317	4.3319
	120 Degrees
	4.3322
62. Opposite Drive End - Endbell Bearing Fit Condition	(P) Pass
63. Bearing Cap Condition	
Drive End Bearing Cap	Opposite Drive End Bearing Cap
Pass	
64. End Bell Air Seal Fits	
Drive End Air Seal	Opposite Drive End Air Seal
Na	
65. List Machine Work Needed Below	
Na	
66. Technician	Cw
	
<b>Root Cause of Failure</b>	
67. Failure locations	
Seals and DE bearing and windings	
68. Root cause of failure	
Seal failed causing lack of lubrication to the DE bearing locking the rollers in place and continuing to spin blowing the windings in slot	
<b>Dynamic Balance Report</b>	
69. Rotor Weight and Balance Grade	
Rotor Weight	Balance Grade
Na	
70. Initial Balance Readings	
Drive End	Opposite Drive End



## 71. Final Balance Readings

Drive End

Opposite Drive End



## 72. Technician

Cw

## Rewind

## 73. Core Test Results - Watts loss per Pound

Pre-Burnout

Post Burnout

Na

## 74. Core Hot Spot Test

Pre-Burnout

Post-Burnout

Na

## 75. Post Rewind Electrical Test- Insulation Resistance

Megohms

Na

## 76. Post Rewind Polarization Index

Polarization Index

Na

## 77. Post Rewind Winding Resistance

1-2

1-3

2-3

Na

## 78. Post Rewind Surge Test

Na

## 79. Post Rewind Hi-Pot

micro-amps

Na

## 80. Technician

RHR

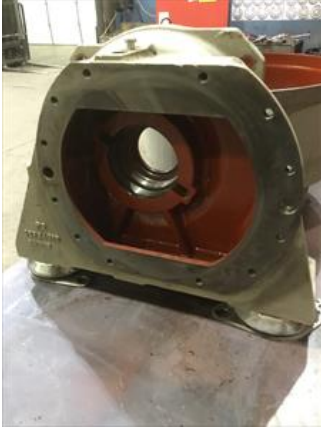
## Assembly

81. QC Check All Parts for Cleanliness Prior to Assembly

Cw



82. Photograph All Major Components prior to assembly



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83. Final Insulation Resistance Test	Megohms		
Pass			
84. Assembled Shaft Endplay	inches		
Na			
85. Assembled Shaft Runout	inches		
Na			
86. Test Run Voltage			
Volts	Volts	Volts	



87. Test Run Amperage			
Amps	Amps	Amps	
Witnessed by Trever Hall			



88. Drive End Vibration Readings - Inches Per Second			
Horizontal		Vertical	Axial
	Na		
89. Opposite Drive End Vibration Readings - Inches Per Second			
Horizontal		Vertical	Axial
	Na		
90. Ambient Temperature - Fahrenheit			
	Na		
91. Drive End Bearing Temps - Fahrenheit			
5 Minutes		10 Minutes	15 Minutes
	Na		
92. Opposite Drive End Bearing Temps - Fahrenheit			
5 Minutes		10 Minutes	15 Minutes
	Na		

93. Document Final Condition with Pictures after paint



94. Final Pics and QC Review

Cw

A handwritten signature in black ink, appearing to read 'TRH', is written across the page.

Sign off: TRH



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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.
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.
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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.
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.
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