



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

LR Motor Shop Repairs

Job Number 104296

Prepared for IHP (10149)

3201 E KIEHL
SHERWOOD AR 72120

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AC Inspection as Found - *LR MOTOR SHOP*

AC Inspection - Rev. 2: *PART# 1/6-217146-01*

1.0

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AC Inspection as Found

IHP (10149)

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FolderID: 104296

FormID: 23757272

AC Inspection - Rev. 2

Location: LR MOTOR SHOP

Serial Number: PART# 1/6-217146-01

Description: 1/3 HP CLEVELAND CENTURY
DIRECT

Hi-Speed Job Number: 104296

Manufacturer: Other

Product Number: XO8-1243

Serial Number: PART# 1/6-217146-01

Frame: K560

Voltage: Other

Current: Other (Amps)

Phase: Three

Enclosure: TENV

of Leads: 6

J-box Included: Half

Coupling/Sheave: Gear

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final

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: ● 16 - Good

Overall Condition

1. Report Date
2. Nameplate Picture

05/07/2025



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3. Photos of all six sides of the machine.



4. Describe the Overall Condition of the Equipment as Received	
<i>Serviceable</i>	
5. Distance from the end of the shaft to the Coupling/Sheave	0.093 inches
6. Is this a UL Listed Motor	(No) No
7. Is the motor water cooled or can be pressure checked before teardown	(No) No
Initial Mechanical/Electrical	
8. Does Shaft Turn Freely?	(Y) Yes
9. Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No

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10. Does Shaft Have Visible Damage?	(No) No
11. Assembled Shaft Runout	0.0004 Inches
12. Assembled Shaft End Play	inches
13. Air Gap Variation <10%	
14. Lead Condition	(P) Pass
15. Lead Length	6 Inches
16. Does it have Lugs?, If so what is the Stud Size?	(Yes) Yes
17. Lead Numbers	
18. Frame Condition	pass
19. Fan Condition	(P) Pass
20. Does motor have internal fan?	(Yes) Yes



21. Broken or Missing Components	none
22. Are the Leads insulated with Chico or other material	(No) No
Initial Electrical Inspection	
23. Insulation Resistance/Megger	289.6 Megohms



Armature

Fields

24. Winding Resistance		
1-2	1-3	2-3
25. Perform Surge Test		
26. Number of Stator Slots		
27. Stator Condition		clp

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28. Stator Thermistors/Ohms	
29. Stator Overloads/Ohms	
Mechanical Inspection	
30. Drive End Bearing Brand	NTN



31. Drive End Bearing Number-	6203 ZZ c3
32. Drive End Bearing Qty.	1
33. Drive End Bearing Type	(Ball) Ball Bearing
34. Drive End Lubrication Type	(Grease) Grease Lubricated
35. Drive End Bearing Insulation or Grounding Device?	
36. Drive End Wavy Washer/Snap-Ring Other Retention Device?	cap
37. Drive End Bearing Condition	normal wear
38. Opposite Drive End Bearing Brand	NTN
39. Opposite Drive End Bearing Number-	6203zzc3




40. Opposite Drive End Bearing Qty.	1
41. Opposite Drive End Bearing Type	(Ball) Ball Bearing
42. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
43. Opposite Drive End Bearing Insulation or Grounding Device?	
44. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer
45. Opposite Drive End Bearing Condition	normal wear
46. Drive End Seal	pass
47. Opposite Drive End Seal	

Rotor Inspection

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48. Rotor Type/Material	(Copper Barred) Copper Barred Rotor
49. Growler Test	(Pass) Pass
50. Number of Rotor Bars	
51. Rotor Condition	pass





52. List the Parts needed for the Repair Below <i>2-6203 bearing</i>	
53. Signature of Technician that Disassembled Motor	RW
	

Mechanical Fits- Rotor

54. Shaft Runout	inches	
55. Rotor Runout		
Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
56. Coupling Fit Closest to Bearing Housing		
0 Degrees	90 Degrees	120 Degrees
57. Coupling Fit Closest to the end of the Shaft		
0 Degrees	60 Degrees	120 Degrees
58. Drive End Bearing Shaft Fit		
0 Degrees	60 Degrees	120 Degrees
0.6695	0.6695	0.6695
59. Drive End Bearing Shaft Fit Condition	(P) Pass	
60. Opposite Drive End Bearing Shaft Fit		
0 Degrees	60 Degrees	120 Degrees
0.6694	0.6694	0.6694
61. Opposite Drive End Bearing Shaft Fit Condition	(P) Pass	
62. Shaft Air Seal Fits		
Drive End Air Seal	Opposite Drive End Air Seal	
pass		

Mechanical Fits- Bearing Housings

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63.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	1.5754	1.5754	1.5754
64.	Drive End - Endbell Bearing Fit Condition		(P) Pass
65.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	1.5752	1.5752	1.5752
66.	Opposite Drive End - Endbell Bearing Fit Condition		(P) Pass
67.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	pass		
68.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
<div> <div></div> <div>Pass</div> </div>			
69.	List Machine Work Needed Below		
70.	Technician		RW
			
Root Cause of Failure			
71.	Failure locations		
	<i>Bearings and dirty</i>		
72.	Root cause of failure		
	<i>Dirty</i>		
Dynamic Balance Report			
73.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
74.	Initial Balance Readings		
	Drive End	Opposite Drive End	
75.	Final Balance Readings		
	Drive End	Opposite Drive End	
76.	Technician		
Assembly			
77.	QC Check All Parts for Cleanliness Prior to Assembly		RW
			

78. Photograph All Major Components prior to assembly

(Complete) Complete



79. Final Insulation Resistance Test

301.6 Megohms



Interpole and armature

Fields

80. Assembled Shaft Endplay	inches	
81. Assembled Shaft Runout	0.0008 inches	
82. Test Run Voltage		
Volts	Volts	Volts
88.8		49.8



Co sign CRW

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83. Test Run Amperage

Amps

0.5

Amps

0.4

Amps



84. Drive End Vibration Readings - Inches Per Second

Horizontal

Vertical

Axial

85. Opposite Drive End Vibration Readings - Inches Per Second

Horizontal

Vertical

Axial

86. Ambient Temperature - Fahrenheit

87. Drive End Bearing Temps - Fahrenheit

5 Minutes

10 Minutes

15 Minutes

88. Opposite Drive End Bearing Temps - Fahrenheit

5 Minutes

10 Minutes

15 Minutes

89. Document Final Condition with Pictures after paint





90. Final Pics and QC Review

RW

A large, stylized handwritten signature in black ink, likely belonging to the inspector or reviewer.

Co sign: CRW



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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.
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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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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