

# LR Motor Shop Repairs

# **Job Number 101537**

Prepared for CoorsTek Inc.

3315 Boone Road Benton AR 72015

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AC Inspection as Found - LR MOTORSHOP

AC Inspection - Rev. 2: 4-897

1.0



FolderID: 101537 FormID: 17126742



# **AC Inspection as Found** CoorsTek Inc.

3315 Boone Road Benton, AR 72015

AC Inspection - Rev. 2

Location: LR MOTORSHOP

Serial Number: 4-897

Description:5HP TEK SPECIALTIES 3600RPM

Hi-Speed Job Number:	101537
Manufacturer:	Other
Serial Number:	4-897
HP/kW:	5 (HP)
RPM:	3450 (RPM)
Voltage:	220-240
Current:	13.6
Phase:	Three
Hz:	60 (Hz)
Enclosure:	TENV
J-box Included:	None
Coupling/Sheave:	Propeller
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Winding Type :	Random Wound
Bearing Type:	Rolling Element

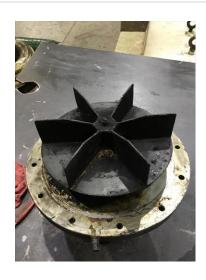
Priorities Found: 6 5 - High

4 - Good

### **Overall Condition**

- 1. Report Date
- Nameplate Picture
- Photos of all six sides of the machine.

















	4.	Describe the Overall Condition of the Dirty	Equipment as Received		
	5.	Distance from the end of the shaft to Na	the Coupling/Sheave		inches
In	nitial	Mechanical/Electrical			
	6.	Does Shaft Turn Freely?			(No) No
	7.	Does Shaft Have Visible Damage?			(No) No
	8.	Assembled Shaft Runout			Inches
	-	Na			
	9.	Assembled Shaft End Play			inches
	-	Na			
	10.	Air Gap Variation <10%			
	•	Na			
	11.	Lead Condition			(F) Fail
	12.	Lead Length			8 Inches
	13.	Frame Condition			pass
	14.	Fan Condition			(P) Pass
	15.	Heater Quantity, Ratings			
		Quantity	Volts/Watts	Pass/Fail	
	_				
	-	Na			
	16.				na
In	16.				na
In	16. nitial	Broken or Missing Components			na Megohms
In	16. nitial	Broken or Missing Components  Electrical Inspection			
In	16. <b>nitial</b> 17.	Broken or Missing Components  Electrical Inspection  Insulation Resistance/Megger  Na			
In	16. <b>nitial</b> 17.	Broken or Missing Components  Electrical Inspection Insulation Resistance/Megger Na	1-3	2-3	
In	16. <b>nitial</b> 17. <b>1</b> 8.	Broken or Missing Components  Electrical Inspection Insulation Resistance/Megger Na Winding Resistance 1-2	1-3	2-3	
In	16. nitial 17. 18.	Broken or Missing Components  Electrical Inspection Insulation Resistance/Megger Na Winding Resistance 1-2 Na	1-3		Megohms
In	16. nitial 17. 18.	Broken or Missing Components  Electrical Inspection Insulation Resistance/Megger Na Winding Resistance 1-2 Na Perform Surge Test	1-3		
In	16. <b>nitial</b> 17. <b>18</b> . 19.	Broken or Missing Components  Electrical Inspection Insulation Resistance/Megger Na Winding Resistance 1-2 Na Perform Surge Test Windings are burned	1-3		Megohms Not Applicable
In	16. nitial 17. 18. 19. 20.	Broken or Missing Components  Electrical Inspection Insulation Resistance/Megger Na Winding Resistance 1-2 Na Perform Surge Test Windings are burned Number of Stator Slots	1-3		Megohms
In	16. <b>nitial</b> 17. 18. 19. 20.	Broken or Missing Components  Electrical Inspection Insulation Resistance/Megger Na Winding Resistance 1-2  Na Perform Surge Test Windings are burned Number of Stator Slots Na	1-3		Megohms Not Applicable
In	16. nitial 17. 18. 19. 20.	Broken or Missing Components  Electrical Inspection Insulation Resistance/Megger Na Winding Resistance 1-2 Na Perform Surge Test Windings are burned Number of Stator Slots	1-3		Megohms Not Applicable

	O T	
	Stator Thermistors/Ohms	
-	Na	
23.		
	Na	
	anical Inspection	
	Drive End Bearing Brand	
-	Na	
25.		6206
26.	Drive End Bearing Qty.	1
27.	Drive End Bearing Type	(Ball) Ball Bearing
28.	Drive End Lubrication Type	(Grease) Grease Lubricated
29.	Drive End Bearing Insulation or Grounding Device?	
-	Na	
30.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer
31.	Drive End Bearing Condition	contamination
32.	Opposite Drive End Bearing Brand	
-	Na	
33.	Opposite Drive End Bearing Number-	6205
34.	Opposite Drive End Bearing Qty.	1
35.	Opposite Drive End Bearing Type	(Ball) Ball Bearing
36.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
37.	Opposite Drive End Bearing Insulation or Grounding Device?	
-	Na	
38.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	
-	Na	
39.	Opposite Drive End Bearing Condition	contamination
40.	Drive End Seal	
-	Na	
41.	Opposite Drive End Seal	
-	Na	
Rotor	Inspection	
42.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
43.	Growler Test	(Pass) Pass
44.	Number of Rotor Bars	
-	Na	
45.	Rotor Condition	
-	Pass	
46.	List the Parts needed for the Repair Below	
	6206 6205 Rewind	
47.	Signature of Technician that Disassembled Motor	Cw

# **Mechanical Fits- Rotor**

40	Ob - 44 Down and			
48.	Shaft Runout Na			inches
49.	Rotor Runout			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End E	Bearing
	Ziivo Ziia Zoaiiiig i k	Troiter 200y	Opposito Birro Eria I	Journing .
•	Na			
50.	Coupling Fit Closest to Bearing Housing	ng		
	0 Degrees	90 Degrees	120 Degrees	
-	Na			
51.	3			
	0 Degrees	60 Degrees	120 Degrees	
_	Na			
52.	Drive End Bearing Shaft Fit	60 Dogroos	120 Dograda	
	0 Degrees	60 Degrees	120 Degrees	
-	Na			
53.	Drive End Bearing Shaft Fit Condition			(P) Pass
54.	Opposite Drive End Bearing Shaft Fit			. ,
	0 Degrees	60 Degrees	120 Degrees	
		•	· ·	
-	Na			
55.	Opposite Drive End Bearing Shaft Fit	Condition		(P) Pass
56.	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
	Na			
-	anical Fits- Bearing Housings			
	Drive End - Endbell Bearing Fit			
07.	0 Degrees	60 Degrees	120 Degrees	
	o Degrees	oo begrees	120 Degrees	
-	Na			
58.	Drive End - Endbell Bearing Fit Condit	tion		(F) Fail
59.	Opposite Drive End - Endbell Bearing	Fit		
	0 Degrees	60 Degrees	120 Degrees	
-	Na			
60.				4-1-
_	11	Fit Condition		(F) Fail
_	Bearing Cap Condition			(F) Fail
_		Fit Condition  Opposite Drive End Bearing Cap		(F) Fail
_	Bearing Cap Condition			(F) Fail
61.	Bearing Cap Condition Drive End Bearing Cap Na			(F) Fail
61.	Bearing Cap Condition Drive End Bearing Cap  Na End Bell Air Seal Fits	Opposite Drive End Bearing Cap		(F) Fail
61.	Bearing Cap Condition Drive End Bearing Cap Na			(F) Fail
61.	Bearing Cap Condition Drive End Bearing Cap  Na End Bell Air Seal Fits	Opposite Drive End Bearing Cap		(F) Fail
61.	Bearing Cap Condition Drive End Bearing Cap  Na End Bell Air Seal Fits Drive End Air Seal	Opposite Drive End Bearing Cap		(F) Fail

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64. Technician Cw

Mu

#### **Root Cause of Failure**

65. Failure locations

Bearing housing fits and bearings

66. Root cause of failure

#### **Dynamic Balance Report**

67. Rotor Weight and Balance Grade

Rotor Weight Balance Grade

68. Initial Balance Readings

Drive End Opposite Drive End

69. Final Balance Readings

Drive End Opposite Drive End

70. Technician

#### Rewind

71. Core Test Results - Watts loss per Pound

Pre-Burnout Post Burnout

Na

72. Core Hot Spot Test

Pre-Burnout Post-Burnout

Na

73. Post Rewind Electrical Test-Insulation Resistance

Megohms

Na

74. Post Rewind Polarization Index

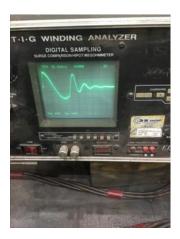
**Polarization Index** 

■ Na

75. Post Rewind Winding Resistance

1-2 1-3 2-3

Na



77. Post Rewind Hi-Pot

Na









78. Technician RW

Co witnesses RHR

Mechanical Fits- Rotor - Post Repair				
79.	Shaft Runout Post Repair			
80.	Rotor Runout Post Repair			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
81.	Coupling Fit Closest to Bearing Housi	•		
	0 Degrees	90 Degrees	120 Degrees	
82.	Coupling Fit Closest to the end of the	Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
92	Drive End Bearing Shaft Fit Post Repa	oir		
03.			400 Danisa	
	0 Degrees	60 Degrees	120 Degrees	
84.	Opposite Drive End Bearing Shaft Fit	Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
85.	Shaft Air Seal Fits Post Repair			
	Drive End Air Seal	Opposite Drive End Air Seal		
86.	Shaft Repair Sign-off			
Mech	anical Fits- Bearing Housings - P	ost Repair		
87.	Drive End - Endbell Bearing Fit Post F	Repair		
	0 Degrees	60 Degrees	120 Degrees	
	2.4418	2.4418	2.4418	



88.	8. Opposite Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
	2.0477	2.0477	2.0477



89.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
90.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
91.	End Bell Repair Sign-off		Gary

**Assembly** 

92. QC Check All Parts for Cleanliness Prior to Assembly

Cw

### 93. Photograph All Major Components prior to assembly









94	4. Final Insulation Resistance Test	Megohms
-	Na	
95	5. Assembled Shaft Endplay	inches
-	Na	
96	6. Assembled Shaft Runout	inches
-	Na	



In picture



98. Test Run Amperage Amps Amps Amps In picture



99.	Drive End Vibration Readings - Inches	Per Second	
	Horizontal	Vertical	Axial
-	Na		
100.	Opposite Drive End Vibration Reading	s - Inches Per Second	
	Horizontal	Vertical	Axial
-	Na		
101.	Ambient Temperature - Fahrenheit		
-	Na		
102.	Drive End Bearing Temps - Fahrenhei	t	
	5 Minutes	10 Minutes	15 Minutes
-	Na		

103. Opposite Drive End Bearing Temps - Fahrenheit5 Minutes10 Minute

10 Minutes 15 Minutes

Na Na

104. Document Final Condition with Pictures after paint

■ Ná

105. Final Pics and QC Review

Cw

Co sign: RRW







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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 bee 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. <u>BILLING AND PAYMENT TERMS.</u> 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. <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.
- **DELIVERY SITE AND TIME FOR PERFORMANCE.** Hi-Speed and Buver 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

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 PARTICLAR 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.

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- 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.