

# LR Motor Shop Repairs

# **Job Number 101099**

Prepared for Reynolds Metals company

1333 highway 270 Malvern AR 72104

## **Table of Contents**

DC Repair Report - Shop

DC Repair Report Rev. 2: 100712 - JR-1-539 KR

1.0





### DC Repair Report Reynolds Metals company

1333 highway 270 Malvern, AR 72104 FolderID: 101099 FormID: 16241864

DC Repair Rep	Hi-Speed Job N	
Location:	Shop	Manufacturer:
Job Number:	100712	<b>Product Numbe</b>
Serial Number:	JR-1-539 KR	Serial Number:
Status:	In For Repair	HP/KW:
Description:16H	RPM:	
		Frame:
		Armature Voltag
		Armature Curre

Hi-Speed Job Number:	100712
Manufacturer:	GE
Product Number :	5CD284KA855A801
Serial Number:	JR-1-539 JR
HP/KW:	16 (HP)
RPM:	400
Frame:	CD409AT
Armature Voltage:	240 (Volts)
Armature Current:	55 (Amps)
Field Voltage:	240 (Volts)
Field Current :	2.94 (Amps)
J-Box Included:	No
Bearing RTDS:	No
Winding RTDS:	No
Mounting Orientation :	Horizontal

#### **Overall Condition**

- 1. Describe the Overall Condition of the Equipment as Received
- 2. Nameplate Picture
- 3. Distance From the End of the Shaft to the end of the Face of the Sheave/Coupling

#### **Initial Mechanical/Electrical**

- 4. Does the Shaft Turn Freely?
- 5. Does Shaft Have Visible Damage?
- 6. Assembled Shaft Runout
- 7. Assembled Shaft End Play
- 8. Air Gap Variation <10%
- 9. Lead Condition
- 10. Lead Length
- 11. Frame Condition
- 12. Fan Condition
- 13. Brush Information

Brush Number Quantity Condition

14. Brush Holder Condition - Verify proper gap to Commutator

#### **Incoming Electrical Test**

- 15. General Condition of the Armature/Commutator
- 16. Armature Insulation Resistance to Ground
- 17. Field Circuit Insulation Resistance to Ground

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18	Interpole Circuit Insulation Resistance	to Ground	
	Total Field Ohms	To Ground	
	Field Ohms		
	Between F1/F2	Between F3/F4	
21.	MegOhms between Fields and Series		
22.	Series Drop Test 1&2		
	Series 1	Series 2	
23.	Series Drop Test 3&4		
	Series 3	Series 4	
24	Field Drop Test Fields 1&2		
2	Total AC Voltage	Field #1	Field #2
	Total / to Voltago	11014 // 1	11014 112
25.	Field Drop Test Fields 3&4		
	Field #3	Fleld #4	Field #2
26.	Field Drop Test Fields 5&6	<b>-</b>	<b>-</b>
	Field #5	Fleld #6	Field #2
27	Field Drop Test Fields 7&8		
21.	Field #7	Fleld #8	Field #2
	1100 111	Tiola no	11014 112
28.	Interpole Drop Test 1&2		
	Total AC Voltage	Interpole #1	Interpole #2
29.	Interpole Drop Test 3&4		
	Interpole #3	Interpole #4	Field #2
30.	Interpole Drop Test 5&6		
	Interpole #5	Interpole #6	Field #2
	merpere me	me.pe.e #e	. 10.0
31.	Interpole Drop Test 7&8		
	Interpole #7	Interpole #8	Field #2
	A	<b>-</b> .	
32.	Armature Number of Bars - Bar to Bar		
	Number of Bars	Bar to Bar Test	
Mecha	anical Inspection		
	Shaft Runout Drive End		
34.	Shaft Runout Armature		
	Drive End Bearing Journal	Armature Core	ODE Bearing Journal
	Ŭ.		ū
35.	<u> </u>		
36.	Drive End Bearing Quantity		
37.	0 71		
38.	Drive End Lubrication Type		
39.	Drive End Bearing Insulation or Groun	iding Device?	

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40.	Drive End Wavy Washer/Snap-Ring C	ther Retention Device?	
41.	3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -		
42.	3		
43.	11 0 7		
44.	-11		
45.	-11		
46.	Opposite Drive End Bearing Insulation	-	
47.	-11		
48.	Opposite Drive End Bearing Condition Signature of Technician who Performe		
	List Parts Needed Prior to Reassembl		
	anical Fits - Armature	y	
	Coupling Fit Closest to Bearing Housi	na	
01.	0 Degrees	60 degrees	120 degrees
	o Degrees	oo degrees	120 degrees
52.	Coupling Fit Closest to the End of the	Shaft	
	0 Degrees	60 degrees	120 degrees
53.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
54	Drive End Bearing Shaft Fit Condition		
	Opposite Drive End Bearing Shaft Fit		
33.	0 Degrees	60 Degrees	120 Degrees
	o Degrees	oo begiees	120 Degrees
56.	Opposite Drive End Bearing Shaft Fit	Condition	
57.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
	anical Fits- Bearing Housings		
58.	Drive End - End Bell Bearing Fit	00 B	400 5
	0 Degrees	60 Degrees	120 Degrees
59.	Drive End - Endbell Bearing Fit Condi	tion	
60.			
	0 Degrees	60 Degrees	120 Degrees
	ŭ	3	ŭ
61.	Opposite Drive End - Endbell Bearing	Fit Condition	
62.	Bearing Cap Condition		
	Drive End	Opposite Drive End	
63.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
64.	,		
	Signature of Technician Performing M	easurements	
	Cause of Failure		
66.	Failure Locations		

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67.	7. Root Cause of Failure		
Comn	mmutator Data		
68.	. Total Copper Segment Length		
69.	Number of Bars		
70.	Number of Wires Per Copper Bar and Size		
	Number of Wires per Bar	Wire Size	
71.	Equalizers per Copper Bar and Equal		
	Equalizers per Bar	Wire Size	
72	Document Commutator Diameter, Mir	nimum and Max	
12.	Current Comm Diameter	Minimum Comm Diameter	Maximum Comm Diameter
	Current Comm Diameter	William Comm Diameter	Waximum Comm Diameter
73.	Commutator Shaft Diameter		
	Front Shaft Diameter	Back Shaft Diameter	
74.	Commutator Type		
75.			
	Signature of Technician Recording Da	ata	
	mic Balance Report		
77.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
78.	Initial Balance Readings		
	Drive End Readings	Opposite Drive End Readings	
79.	Final Balance Readings		
	Drive End Readings	Opposite Drive End Readings	
80.	Signature of the Balance Technician		
Post A	Armature Rewind Testing		
81.	Post Rewind Armature Insulation Res	istance to Ground	
82.	Post Rewind Field Circuit Measure the Insulation Resistance to Ground		
83.			
	Number of Bars	Bar to Bar Test	
84.	Post Rewind Field Circuit Insulation Resistance to Ground		
0	Post Rewind Interpole Circuit Insulation Resistance to Ground		
	Post Rewind Field Drop Test Fields 1&2		
	Total AC Voltage	Field #1	Field #2
	3		
87.	Post Rewind Field Drop Test Fields 3	&4	
	Field #3	Fleld #4	Field #2
	B (B (15)15) = (5)15	0.0	
88.	Post Rewind Field Drop Test Fields 5		F: 11/10
	Field #5	Fleld #6	Field #2

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106.	Signature of Tech Performing Mechan	ical Repairs		
	Duve Eug VII 2691	Opposite Drive End Air Seal		
105.	Post Repair End Bell Air Seal Fits Drive End Air Seal	Opposite Drive End Air Seel		
101.	Drive End	Opposite Drive End		
	Post Repair Opposite Drive End - End Post Repair Bearing Cap Condition	Deli Bearing Fit Condition		
400	Deat Densis Onne is Dis Est Est	lle all December 5 to Occupitati		
	0 Degrees	60 Degrees	120 Degrees	
	Post Repair Opposite Drive End - End	-		
101	Post Repair Drive End - Endbell Beari	ng Fit Condition		
	0 Degrees	60 Degrees	120 Degrees	
	Post Repair Drive End - End Bell Bear			
99.	Post Repair Drive End Opposite Drive	End Bearing Shaft Fit Condition		
	0 Degrees	60 Degrees	120 Degrees	
98.	Post Repair Drive End Opposite Drive	•		
	Post Repair Drive End Bearing Shaft I			
	o Dogioco	-00 20g1000	120 Dog1000	
90.	0 Degrees	60 Degrees	120 Degrees	
06	Post Repair Drive End Bearing Shaft I	=i+		
	0 Degrees	60 degrees	120 degrees	
95.	95. Post Repair Coupling Fit Closest to the End of the Shaft			
	0 Degrees	60 degrees	120 degrees	
94.	Post Repair Coupling Fit Closest to Be	· · · · · · · · · · · · · · · · · · ·		
	Mechanical Repair			
	into i poi o ii i		. 1014 112	
93.	Post Rewind Interpole Drop Test 7&8 Interpole #7	Interpole #8	Field #2	
02	Post Powind Internals Pres Test 799			
	Interpole #5	Interpole #6	Field #2	
92.	Post Rewind Interpole Drop Test 5&6			
	Interpole #3	Interpole #4	Field #2	
91.	Post Rewind Interpole Drop Test 3&4			
	<u> </u>	, 5.5	,	
30.	Total AC Voltage	Interpole #1	Interpole #2	
90	Post Rewind Interpole Drop Test 1&2			
	Field #7	Fleld #8	Field #2	
89.	Post Rewind Field Drop Test Fields 7&8			

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#### 107. Take Pictures of all Major Components Prior to Reassembly





108. Verify Brush Box Holders Have the Proper Clearance, and Brushes have been Seated Properly

109. Assembled Shaft End Play and Runout

Shaft Endplay Shaft Runout

110. Perform No-Load Test Run, Record Armature Voltage and Current

Voltage Current

239.7 1.3





### 111. Perform No-Load Test Run, Record Field Voltage and Current

Voltage Current 241.5 4.1





112. C	12. Document Vibration Readings Drive End		
H	Horizontal	Vertical	Axial
	113. Document Vibration Readings Opposite Drive End		
H	Horizontal	Vertical	Axial
114. F	Perform Full-Load Test Run, Record A	rmature Voltage and Current	
	Voltage	Current	
·	· onago		
115. F	115. Perform Full-Load Test Run, Record Field Voltage and Current		
V	Voltage	Current	
	Document Vibration Readings Under F		
F	Horizontal	Vertical	Axial
117. D	Document Vibration Readings Under F	Full Load Opposite Drive End	
	-lorizontal	Vertical	Axial
118. A	Ambient Temperature		
119. C	Drive End Bearing Temps Under Full L	oad	
5	5 Minutes	10 Minutes	15 Minutes
120 0	Opposite Drive End Beering Towns Liv	odor Full Lood	
	Opposite Drive End Bearing Temps Ur		45 10
5	5 Minutes	10 Minutes	15 Minutes
121. F	Final Test Run Sign-Off		
122. D	Document Final Condition With Picture	es	









123. Final QC Sign-Off RW





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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.
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- 8. <u>WARRANTIES.</u> 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. <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.
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