

LR Motor Shop Repairs

Job Number 103057

Prepared for ARKANSAS INDUSTRIAL MACHINERY

3804 N. NONA ST NORTH LITTLE ROCK AR 72118

Table of Contents

AC Inspection as Found - Shop

AC Inspection - Rev. 2: 3G1P223602985

1.0



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

> FolderID: 103057 FormID: 20544959

AC Inspection as Found ARKANSAS INDUSTRIAL MACHINERY

3804 N. NONA ST NORTH LITTLE ROCK, AR 72118

AC Inspection - Rev. 2

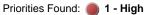
Location:

Serial Number: 3G1P223602985

Description:75KW RHINECO ABB REBUILD

Shop

Hi-Speed Job Number:	1030
Manufacturer:	ABB
Serial Number:	3G1P223602985
HP/kW:	75 (kW)
RPM:	3579 (RPM)
Voltage:	Other
Current:	117
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	6
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	05/31/2024
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





9 - Good

Overall Condition

1. Report Date 06/12/2024

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2. Nameplate Picture





3. Photos of all six sides of the machine.































none



10. Air Gap Variation <10%

	4.	Describe the Overall Condition of the Equipment as Received	
		Clean	
In	itial	Mechanical/Electrical	
	5.	Does Shaft Turn Freely?	(Y) Yes
	6.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
	7.	Does Shaft Have Visible Damage?	(No) No
	8.	Assembled Shaft Runout	0 Inches
	9.	Assembled Shaft End Play	0 inches

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11.	Lead Condition	(P) Pass
12.	Lead Length	8 Inches
1 3.	Does it have Lugs?, If so what is the Stud Size?	(Yes) Yes
14	Lead Numbers	UVW 1&2
	Frame Condition	good
16.	Fan Condition	(P) Pass
17.	Broken or Missing Components	none
Initial	Electrical Inspection	
18.	Insulation Resistance/Megger	20000 Megohms



19.	Winding Resistance				
	1-2	1-3	2-3		
	.156	.156	.156		
2 0.	Perform Surge Test		(P) Pass		
21.	Number of Stator Slots		48		
22.	Stator Condition		good		
23.	Stator Thermistors/Ohms		none		
24.	Stator Overloads/Ohms		none		
Mecha	Mechanical Inspection				
25.	Drive End Bearing Brand		SKF		





26. Drive End Bearing Number-	NU213	
27. Drive End Bearing Qty.	1	

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28.	Drive End Bearing Type		(Roller) Roller Bearing
29.	Drive End Lubrication Type		(Oil) Oil Lubricated
30.	Drive End Bearing Insulation or	Grounding Device?	none
31.	Drive End Wavy Washer/Snap-F	•	none
32.	Drive End Bearing Condition	ang care recention bevioe.	contaminated
33.	Opposite Drive End Bearing Bra	nd	SKF
34.	Opposite Drive End Bearing Nur		6215 2RS
35.	Opposite Drive End Bearing Qty		1
36.	Opposite Drive End Bearing Typ		(Ball) Ball Bearing
37.	Opposite Drive End Lubrication		(Grease) Grease Lubricated
38.	Opposite Drive End Bearing Insu	••	none
39.	· · · · · · · · · · · · · · · · · · ·	er/Snap-Ring Other Retention Device?	snap ring
40.	Opposite Drive End Bearing Cor	· •	normal wear
41.	Drive End Seal		yes
-	See kit		,,,,
42.	Opposite Drive End Seal		none
	Inspection		
	Rotor Type/Material		(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
44.	Growler Test		(Pass) Pass
45.	Number of Rotor Bars		50
46.			good
40.			
	List the Parts needed for the Re	pair Below	5
	List the Parts needed for the Re Seal kit from aim (already receive	d)	David Maclin
47.	List the Parts needed for the Re Seal kit from aim (already received	d)	
47.	List the Parts needed for the Re Seal kit from aim (already received	d)	
47. 48.	List the Parts needed for the Research kit from aim (already received Signature of Technician that Dis	d)	
47. 48. Mech a	List the Parts needed for the Research Seal kit from aim (already received Signature of Technician that Distance In Technical In Technica	d)	David Maclin
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47. 48. 48. Mech a 49. 50.	List the Parts needed for the Research Reference Seal kit from aim (already received Signature of Technician that Distance In Technical In Technician that Distance In Technician that Distance In Tec	Rotor Body 0	David Maclin O inches Opposite Drive End Bearing
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47. 48. 48. 49. 50.	List the Parts needed for the Re Seal kit from aim (already receive) Signature of Technician that Dis anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit Coupling Fit Closest to Bearing	Rotor Body O Housing	David Maclin O inches Opposite Drive End Bearing O
47. 48. 48. 49. 50.	List the Parts needed for the Research Reference Seal kit from aim (already received Signature of Technician that Distance In Technical In Technician that Distance In Technician that Distance In Tec	Rotor Body O Housing 90 Degrees 1.8116	David Maclin O inches Opposite Drive End Bearing O 120 Degrees
47. 48. 48. 49. 50.	List the Parts needed for the Research kit from aim (already received Signature of Technician that Dissert anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit 0 Coupling Fit Closest to Bearing 0 Degrees 1.8116	Rotor Body O Housing 90 Degrees 1.8116	David Maclin O inches Opposite Drive End Bearing O 120 Degrees
47. 48. 48. 49. 50.	List the Parts needed for the Research Reference Seal kit from aim (already received Signature of Technician that Distance In Technical In Technician that Distance In Technician that Distance In Tec	Rotor Body O Housing 90 Degrees 1.8116 of the Shaft	David Maclin O inches Opposite Drive End Bearing O 120 Degrees 1.8116
47. 48. //echa 49. 50.	List the Parts needed for the Reseal kit from aim (already received Signature of Technician that Dissemble 1997) anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit Coupling Fit Closest to Bearing 1997 0 Degrees 1.8116 Coupling Fit Closest to the end of 0 Degrees	Rotor Body O Housing 90 Degrees 1.8116 of the Shaft 60 Degrees	O inches Opposite Drive End Bearing O 120 Degrees 1.8116 120 Degrees
47. 48. //echa 49. 50.	List the Parts needed for the Reseal kit from aim (already received Signature of Technician that Dissemble 1998) anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit Coupling Fit Closest to Bearing 1999 0 Degrees 1.8116 Coupling Fit Closest to the end of Degrees 1.8116	Rotor Body O Housing 90 Degrees 1.8116 of the Shaft 60 Degrees	O inches Opposite Drive End Bearing O 120 Degrees 1.8116 120 Degrees
47. 48. 48. //lech 49. 50.	List the Parts needed for the Reseal kit from aim (already received Signature of Technician that Dissemble 1998) anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit 0 Coupling Fit Closest to Bearing II 0 Degrees 1.8116 Coupling Fit Closest to the end of Degrees 1.8116 Drive End Bearing Shaft Fit	Rotor Body O Housing 90 Degrees 1.8116 of the Shaft 60 Degrees 1.8116	O inches Opposite Drive End Bearing O 120 Degrees 1.8116 120 Degrees 1.8116

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55	. Opposite Drive End Bearing Shaft Fit			
55	•		120 Dograda	
	0 Degrees	60 Degrees	120 Degrees	
- 50	2.953	2.953	2.953	(D) D
56	11 0	Condition		(P) Pass
57	. Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
	ok	ok		
	nanical Fits- Bearing Housings			
58	. Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	5.5118	5.5118	5.5118	
	. Drive End - Endbell Bearing Fit Condi			(P) Pass
60	. Opposite Drive End - Endbell Bearing	Fit		
	0 Degrees	60 Degrees	120 Degrees	
	5.1185	5.1186	5.1184	
61	11	Fit Condition		(P) Pass
62	. Bearing Cap Condition			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	na	ok		
63	. End Bell Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
	ok	ok		
64	. List Machine Work Needed Below			
	None			
65	. Technician			David Maclin
	-			
		7		
4				
Root	Cause of Failure			
66	. Failure locations			
	Bearing DE			
67	. Root cause of failure			
	Contamination			
Dvna	amic Balance Report			
-	. Rotor Weight and Balance Grade			
	Rotor Weight	Balance Grade		
	rector vveigne	Balarioe Grade		
69	. Initial Balance Readings			
	Drive End	Opposite Drive End		
		, ,		
70	. Final Balance Readings			
		Occasion Balance Full		
	Drive End	Opposite Drive End		
		Opposite Drive End		
71	Drive End . Technician	Opposite Drive End		
		Opposite Drive End		

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	•		
	or to assembly		
inal Insulation Posistance Test	Photograph All Major Components prior to assembly		
. Final Insulation Resistance Test			
75. Assembled Shaft Endplay			
76. Assembled Shaft Runout			
77. Test Run Voltage			
/olts	Volts	Volts	
est Run Amperage			
Amps	Amps	Amps	
Horizontal	Vertical	Axial	
Opposite Drive End Vibration Deadings	n Inches Dar Casand		
Iorizontal	Vertical	Axial	
umbient Temperature - Fahrenheit			
•			
<u> </u>		15 Minutes	
Williacoo	TO WILLIAMS	10 Militatos	
83. Opposite Drive End Bearing Temps - Fahrenheit			
	10 Minutes	15 Minutes	
ocument Final Condition with Pictures	s after paint		
inal Pics and QC Review			
Te Arr	est Run Voltage olts est Run Amperage mps rive End Vibration Readings - Inches orizontal pposite Drive End Vibration Readings orizontal mbient Temperature - Fahrenheit rive End Bearing Temps - Fahrenheit Minutes pposite Drive End Bearing Temps - F Minutes ocument Final Condition with Pictures	est Run Voltage olts Volts est Run Amperage mps Amps rive End Vibration Readings - Inches Per Second orizontal Vertical pposite Drive End Vibration Readings - Inches Per Second orizontal Vertical mbient Temperature - Fahrenheit rive End Bearing Temps - Fahrenheit Minutes 10 Minutes posite Drive End Bearing Temps - Fahrenheit Minutes 10 Minutes occument Final Condition with Pictures after paint	

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- 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.
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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.
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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, 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.