

LR Motor Shop Repairs

Job Number 101529

Prepared for Almatis Inc/RCP Bauxite (10014)

4701 Alcoa Road Bauxite AR 72011

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AC Inspection as Found - LR Motor Shop

AC Inspection - Rev. 2: C 05 7768296-0205 M 0002

1.0



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AC Inspection as Found Almatis Inc/RCP Bauxite (10014)

4701 Alcoa Road Bauxite, AR 72011

AC Inspection - Rev. 2

Location: LR Motor Shop

Serial Number: C 05 7768296-0205 M 0002

Description: 30HP US MOTORS 1800RPM 286T

Hi-Speed Job Number:	101529
Manufacturer:	US Motors/Nidec
Product Number:	HD30P2F
Serial Number:	C 05 7768296-0205 M 0002
HP/kW:	30 (HP)
RPM:	1775 (RPM)
Frame:	286T
Voltage:	230 / 460
Current:	70/35
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 6 - High

3 - Good

Overall Condition

- 1. Report Date
- Nameplate Picture



Photos of all six sides of the machine.

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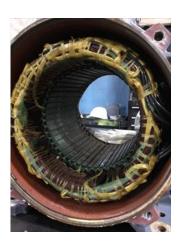








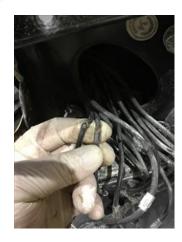






4. Describe the Overall Condition of the Equipment as Received *Rotor is loose*

		Rotor is loose	
ı	Initial	Mechanical/Electrical	
	5.	Does Shaft Turn Freely?	(Yes) Yes
	6.	Does Shaft Have Visible Damage?	(No) No
	7.	Assembled Shaft Runout	0.001 Inches
	8.	Assembled Shaft End Play	0.001 inches
	9.	Air Gap Variation <10%	
	10.	Lead Condition	(F) Fail





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11.	Lead Length	10 Inches
12.	Frame Condition	
13.	Fan Condition	(P) Pass
14.	Broken or Missing Components	
Initial	Electrical Inspection	
15.	Insulation Resistance/Megger	2000 Megohms
16.	Winding Resistance	
	1-2 1-3	2-3
17.	Perform Surge Test	(P) Pass
18.	Number of Stator Slots	48 Megohms
19.	Stator Condition	
20.		
21.	Stator Overloads/Ohms	
Mech	anical Inspection	
22.	Drive End Bearing Brand	skf
23.	Drive End Bearing Number-	6310 2zc3
24.	Drive End Bearing Qty.	1
25.	Drive End Bearing Type	(Ball) Ball Bearing
26.	Drive End Lubrication Type	(Grease) Grease Lubricated
27.	Drive End Bearing Insulation or Grounding Device?	
28.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	
29.	Drive End Bearing Condition	fail
30.	Opposite Drive End Bearing Brand	skf
31.	Opposite Drive End Bearing Number-	6210 2zc3
32.	Opposite Drive End Bearing Qty.	1
33.	Opposite Drive End Bearing Type	(Ball) Ball Bearing
34.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
35.	Opposite Drive End Bearing Insulation or Grounding Device?	
36.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer
-	Broken	
37.	Opposite Drive End Bearing Condition	fail
38.	Drive End Seal	
39.	Opposite Drive End Seal	
Rotor	Inspection	
40.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
41.	Growler Test	(Pass) Pass
42.	Number of Rotor Bars	56
43.	Rotor Condition	
44.	6310 2zc3	
	6210 2zc3 Possibly new shaft	

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45.	Signature of Technician that Disassembled Motor
	/-7//

Trevor Hall

Mech	anical Fits- Rotor			
46.	Shaft Runout		0.	.001 inches
47.	Rotor Runout			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End	Bearing
48.	Coupling Fit Closest to Bearing House	sing		
	0 Degrees	90 Degrees	120 Degrees	
	1.8749	1.8749	1.8749	
49.	Coupling Fit Closest to the end of the	e Shaft		
	0 Degrees	60 Degrees	120 Degrees	
	1.8744	1.8745	1.8745	
50.	Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	1.9684	1.9684	1.9684	
51.	Drive End Bearing Shaft Fit Condition	n		(F) Fail
-	Undersized			
52.	Opposite Drive End Bearing Shaft Fi	t		
	0 Degrees	60 Degrees	120 Degrees	
	1.9685	1.9685	1.9685	
53.	Opposite Drive End Bearing Shaft Fi Undersized	t Condition		(F) Fail
54.	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
	anical Fits- Bearing Housings			
55.	Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	4.3321	4.332	4.332	
56.	Drive End - Endbell Bearing Fit Cond	dition		(F) Fail
57.	Opposite Drive End - Endbell Bearin	-		
	0 Degrees	60 Degrees	120 Degrees	
	3.5449	3.5448	3.5448	
58.	Opposite Drive End - Endbell Bearin	g Fit Condition		(F) Fail
59.	Bearing Cap Condition			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
60.	End Bell Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
61.	List Machine Work Needed Below Shaft fits and end bell fits			

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62. Technician Trevor Hall



-	nic Balance Report		
63.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
64.	Initial Balance Readings		
	Drive End	Opposite Drive End	
65	Final Balance Readings		
00.	Drive End	Opposite Drive End	
	Drive Lilu	Opposite Drive Life	
66.	Technician		
Rewin	nd		
67.	Core Test Results - Watts loss per Po	und	
	Pre-Burnout	Post Burnout	
68.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
	B (B) [5] () [7]	B : :	
	Post Rewind Electrical Test- Insulation	n Resistance	
70. Post Rewind Polarization Index			
71.	Post Rewind Winding Resistance		
	4.0	4.0	0.0
	1-2	1-3	2-3
72.		1-3	2-3
		1-3	2-3
73.	Post Rewind Surge Test	1-3	2-3
73. 74.	Post Rewind Surge Test Post Rewind Hi-Pot	1-3	2-3
73. 74.	Post Rewind Surge Test Post Rewind Hi-Pot Technician	1-3	2-3
73. 74. Root (Post Rewind Surge Test Post Rewind Hi-Pot Technician Cause of Failure	1-3	2-3
73. 74. Root (75. 76.	Post Rewind Surge Test Post Rewind Hi-Pot Technician Cause of Failure Failure locations	1-3	2-3
73. 74. Root (75. 76.	Post Rewind Surge Test Post Rewind Hi-Pot Technician Cause of Failure Failure locations Root cause of failure	1-3	2-3
73. 74. Root (75. 76. Mecha	Post Rewind Surge Test Post Rewind Hi-Pot Technician Cause of Failure Failure locations Root cause of failure anical Fits- Rotor - Post Repair	1-3	2-3
73. 74. Root (75. 76. Mecha	Post Rewind Surge Test Post Rewind Hi-Pot Technician Cause of Failure Failure locations Root cause of failure anical Fits- Rotor - Post Repair Shaft Runout Post Repair	1-3 Rotor Body	Opposite Drive End Bearing
73. 74. Root (75. 76. Mecha 77. 78.	Post Rewind Surge Test Post Rewind Hi-Pot Technician Cause of Failure Failure locations Root cause of failure anical Fits- Rotor - Post Repair Shaft Runout Post Repair Rotor Runout Post Repair Drive End Bearing Fit	Rotor Body	
73. 74. Root (75. 76. Mecha 77. 78.	Post Rewind Surge Test Post Rewind Hi-Pot Technician Cause of Failure Failure locations Root cause of failure anical Fits- Rotor - Post Repair Shaft Runout Post Repair Rotor Runout Post Repair Drive End Bearing Fit Coupling Fit Closest to Bearing Housi	Rotor Body ng Post Repair	Opposite Drive End Bearing
73. 74. Root (75. 76. Mecha 77. 78.	Post Rewind Surge Test Post Rewind Hi-Pot Technician Cause of Failure Failure locations Root cause of failure anical Fits- Rotor - Post Repair Shaft Runout Post Repair Rotor Runout Post Repair Drive End Bearing Fit	Rotor Body	
73. 74. Root (75. 76. Mecha 77. 78.	Post Rewind Surge Test Post Rewind Hi-Pot Technician Cause of Failure Failure locations Root cause of failure anical Fits- Rotor - Post Repair Shaft Runout Post Repair Rotor Runout Post Repair Drive End Bearing Fit Coupling Fit Closest to Bearing Housi 0 Degrees	Rotor Body ng Post Repair 90 Degrees	Opposite Drive End Bearing
73. 74. Root (75. 76. Mecha 77. 78.	Post Rewind Surge Test Post Rewind Hi-Pot Technician Cause of Failure Failure locations Root cause of failure anical Fits- Rotor - Post Repair Shaft Runout Post Repair Rotor Runout Post Repair Drive End Bearing Fit Coupling Fit Closest to Bearing Housi 0 Degrees Coupling Fit Closest to the end of the	Rotor Body ng Post Repair 90 Degrees Shaft Post Repair	Opposite Drive End Bearing 120 Degrees
73. 74. Root (75. 76. Mecha 77. 78.	Post Rewind Surge Test Post Rewind Hi-Pot Technician Cause of Failure Failure locations Root cause of failure anical Fits- Rotor - Post Repair Shaft Runout Post Repair Rotor Runout Post Repair Drive End Bearing Fit Coupling Fit Closest to Bearing Housi 0 Degrees	Rotor Body ng Post Repair 90 Degrees	Opposite Drive End Bearing
73. 74. Root (75. 76. Mecha 77. 78.	Post Rewind Surge Test Post Rewind Hi-Pot Technician Cause of Failure Failure locations Root cause of failure anical Fits- Rotor - Post Repair Shaft Runout Post Repair Rotor Runout Post Repair Drive End Bearing Fit Coupling Fit Closest to Bearing Housi 0 Degrees Coupling Fit Closest to the end of the 0 Degrees	Rotor Body ng Post Repair 90 Degrees Shaft Post Repair 60 Degrees	Opposite Drive End Bearing 120 Degrees
73. 74. Root (75. 76. Mecha 77. 78.	Post Rewind Surge Test Post Rewind Hi-Pot Technician Cause of Failure Failure locations Root cause of failure anical Fits- Rotor - Post Repair Shaft Runout Post Repair Rotor Runout Post Repair Drive End Bearing Fit Coupling Fit Closest to Bearing Housi 0 Degrees Coupling Fit Closest to the end of the 0 Degrees	Rotor Body ng Post Repair 90 Degrees Shaft Post Repair 60 Degrees	Opposite Drive End Bearing 120 Degrees

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82.	82. Opposite Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
83.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
9.4	Shaft Panair Sign off		
84. Shaft Repair Sign-off Mochanical Fite: Regring Housings - Post Popair			
Mechanical Fits- Bearing Housings - Post Repair 85. Drive End - Endbell Bearing Fit Post Repair			
00.			120 Degrees
	0 Degrees	60 Degrees	120 Degrees
86.	Opposite Drive End - Endbell Bearing	Fit Post Repair	
	0 Degrees	60 Degrees	120 Degrees
	S .	S .	Ü
87.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
_			
88.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
90	End Bell Repair Sign-off		
Assen			
	QC Check All Parts for Cleanliness Pr	ior to Assambly	
		·	
	91. Photograph All Major Components prior to assembly		
92. Final Insulation Resistance Test93. Assembled Shaft Endplay			
	Assembled Shaft Runout		
	Test Run Voltage		
00.	Volts	Volts	Volts
	Volte	Volta	Volta
96.	Test Run Amperage		
	Amps	Amps	Amps
97.	Drive End Vibration Readings - Inches		
	Horizontal	Vertical	Axial
00	Opposite Drive Fuel Villageties D. P.	va Jackes Dev Cassad	
98.			A:-1
	Horizontal	Vertical	Axial
99. Ambient Temperature - Fahrenheit			
	Drive End Bearing Temps - Fahrenhe	it	
	5 Minutes	10 Minutes	15 Minutes
101.	Opposite Drive End Bearing Temps -	Fahrenheit	
	5 Minutes	10 Minutes	15 Minutes
	Document Final Condition with Picture	es after paint	
103.	Final Pics and QC Review		

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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

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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.
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