

# LR Motor Shop Repairs

# **Job Number 102266**

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 7767454-0020 M 0001

1.0



FolderID: 102266

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

4701 Alcoa Road Bauxite, AR 72011

Serial Number:

AC Inspection - Rev. 2

Location: LR Motor Shop

Description: 40HP US MOTORS 1800RPM 324T

C 05 7767454-0020 M 0001

102266 **Hi-Speed Job Number:** Manufacturer: US Motors/Nidec

**Product Number:** HD40P2E

Serial Number: C 05 7767454-0020 M 0001

HP/kW: 40 (HP) RPM: 1780 (RPM)

Frame: 324T

Voltage: 230 / 460

**Current:** 92/46

Phase: Three

Hz: 60 (Hz) Service Factor: 1.15

TEFC Enclosure:

J-box Included: Complete

Coupling/Sheave: None

**Bearing RTDs:** No Stator RTDs: No

Repair Stage: Final

**Heaters:** No

Random Wound Winding Type:

Rolling Element Bearing Type:

9 - Good

Priorities Found: 2 - High





#### **Overall Condition**

Report Date

Nameplate Picture



Photos of all six sides of the machine.

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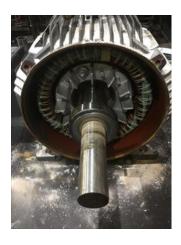






















Describe the Overall Condition of the Equipment as Received

Distance from the end of the shaft to the Coupling/Sheave 5.

inches

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

Does Shaft Turn Freely? (Yes) Yes Does Shaft Have Visible Damage? (No) No 8. Assembled Shaft Runout 0.002 Inches

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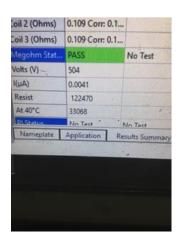
9.	Assembled Shaft End Play			inches
-	Na			
10.	Air Gap Variation <10%			
-	Na			
11.	Lead Condition			(P) Pass
12.	Lead Length			12 Inches
13.	Lead Numbers			1-12
14.	Stator Temperature Detector Rating a	and Function		
	Quantity	Rating	Quantity Passed	
-	Na			
15.	Bearing Temperature Detector Rating	and Function		
	Quantity	Rating	Quantity Passed	
-	Na			
16.	Frame Condition			pass
17.	Fan Condition			(P) Pass



18.	Heater Quantity, Ratings				
	Quantity	Volts/Watts	Pass/Fail		
-	Na				
19.	Broken or Missing Components			na	
Initial	Initial Electrical Inspection				

#### 20. Insulation Resistance/Megger

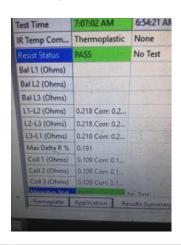
In picture



21. Winding Resistance

1-2 1-3 2-3

In picture



22. Perform Surge Test

(P) Pass

Megohms



23. Number of Stator Slots 48

24. Stator Condition pass

25. Stator Thermistors/Ohms

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Na

26. Stator Overloads/Ohms

Na

### **Mechanical Inspection**

27. Drive End Bearing Brand

peer



28	Drive End Bearing Number-	6311
29	Drive End Bearing Qty.	1
30	Drive End Bearing Type	(Ball) Ball Bearing
31	Drive End Lubrication Type	(Grease) Grease Lubricated
32	Drive End Bearing Insulation or Grounding Device?	
-	Na	
33	Drive End Wavy Washer/Snap-Ring Other Retention Device?	na
34	Drive End Bearing Condition	
-	Signs of frosting	



35. Opposite Drive End Bearing Brand

skf



36.	Opposite Drive End Bearing Number-	6211
37.	Opposite Drive End Bearing Qty.	1
38.	Opposite Drive End Bearing Type	(Ball) Ball Bearing
39.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
40.	Opposite Drive End Bearing Insulation or Grounding Device?	na
41.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer
42.	Opposite Drive End Bearing Condition	
-	Signs of frosting	



43.	Drive End Seal		
-	Slinger		
44.	Opposite Drive End Seal		
-	Na		
45.	DE Sleeve Bearing Inside Diameter		
	0 degrees	120 degrees	240 degrees
-	Na		
46.	DE Sleeve Bearing Outside Diameter		
	0 degrees	120 degrees	240 degrees
-	Na		

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47.	DE Sleeve Bearing Housing Inside Dia		
	0 degrees	120 degrees	240 degrees
-	Na		
48.	DE Sleeve Bearing to Housing Cleara	nce	
	0 degrees	120 degrees	240 degrees
-	Na		
49.	3		
	0 degrees	120 degrees	240 degrees
	Na		
50.		or .	
30.		120 degrees	240 degrees
	0 degrees	120 degrees	240 degrees
-	Na		
51.	ODE Sleeve Bearing Housing Inside [	Diameter	
	0 degrees	120 degrees	240 degrees
	C	C	Ü
-	Na		
52.	ODE Sleeve Bearing to Housing Clea	rance	
	0 degrees	120 degrees	240 degrees
	M-		
, , ,	Na		
	Inspection		
	Rotor Type/Material		(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
_	Growler Test		(Pass) Pass
	Number of Rotor Bars		56
	Rotor Condition		pass
57.	List the Parts needed for the Repair B	elow	
	6311 6211		
	Aegis ring-2.6070		
58.	Signature of Technician that Disassen	nbled Motor	Cw
	/ / .		
	/ her		
/	/ Jun		
(	Mun		
Mecha	anical Fits- Rotor		
Mecha 59.	anical Fits- Rotor		inches
	anical Fits- Rotor		inches
59.	anical Fits- Rotor Shaft Runout		inches
59.	anical Fits- Rotor Shaft Runout 0.002	Rotor Body	inches Opposite Drive End Bearing
59.	anical Fits- Rotor Shaft Runout 0.002 Rotor Runout	Rotor Body	

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	61	. Coupling Fit Closest to Bearing Housing				
	· · ·	0 Degrees	90 Degrees	120 Degrees		
		o Degrees	30 Degrees	120 Degrees		
	-	Na				
	62.	Coupling Fit Closest to the end of the	Shaft			
		0 Degrees	60 Degrees	120 Degrees		
	-	Na				
	63.	Drive End Bearing Shaft Fit				
		0 Degrees	60 Degrees	120 Degrees		
		2.1655	2.1653	2.1654		
	64.		21.000	21.00	(P) Pass	
		Opposite Drive End Bearing Shaft Fit			(. ) . 400	
	00.	0 Degrees	60 Degrees	120 Degrees		
		2.1655	2.1655	2.1654		
	66			2.1034	(P) Pass	
		Shaft Air Seal Fits	Condition		(F) FdSS	
	67.		Opposite Daire Ford Air Cool			
		Drive End Air Seal	Opposite Drive End Air Seal			
		Na				
М	,	anical Fits- Bearing Housings				
101		Drive End - Endbell Bearing Fit				
	00.	<u>-</u>	60 Degrees	120 Dogroos		
		0 Degrees 4.7255	4.7254	120 Degrees 4.7254		
	60	Drive End - Endbell Bearing Fit Condit		4.7234	(P) Pass	
		Opposite Drive End - Endbell Bearing			(F) Fa55	
	70.			100 Dograda		
		0 Degrees	60 Degrees	120 Degrees		
	74	3.9379	3.9379	3.938	(D) Door	
	71.	11 0	Fit Condition		(P) Pass	
	12.	Bearing Cap Condition	Occasion Del la Fall Bassica Occ			
		Drive End Bearing Cap	Opposite Drive End Bearing Cap			
	-	Na				
	73.	End Bell Air Seal Fits				
		Drive End Air Seal	Opposite Drive End Air Seal			
		Dive End All Gedi	Opposite Drive End Air Gear			
	-	Na				
	74.	List Machine Work Needed Below				
		Na				
	75.	Technician			Cw	
		/ /- ar:				
		( firi				
_						
R	not (	Cause of Failure				

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

76. Failure locations Bearings

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77	Doot cause of failure				
77.	Root cause of failure  Bearings have frosting other than that	motor is in good shape			
Dynar	amic Balance Report				
-	Rotor Weight and Balance Grade				
70.	Rotor Weight	Balance Grade			
	Notor Weight	Balance Grade			
79.	Initial Balance Readings				
	Drive End	Opposite Drive End			
		· ·			
80.	Final Balance Readings				
	Drive End	Opposite Drive End			
01	Technician				
Rewin	Core Test Results - Watts loss per Po	und			
02.	Pre-Burnout	Post Burnout			
	r 16-Dulliout	r ost Bulliout			
83.	Core Hot Spot Test				
	Pre-Burnout	Post-Burnout			
	Post Rewind Electrical Test- Insulation	n Resistance			
	Post Rewind Polarization Index				
86.	Post Rewind Winding Resistance				
	1-2	1-3	2-3		
87	Post Rewind Surge Test				
	Post Rewind Hi-Pot				
	Technician				
	anical Fits- Rotor - Post Repair				
	Shaft Runout Post Repair				
	Rotor Runout Post Repair				
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing		
	·	·			
92.	Coupling Fit Closest to Bearing House	· · · · · · · · · · · · · · · · · · ·			
	0 Degrees	90 Degrees	120 Degrees		
02	Coupling Fit Closest to the end of the	Shaft Doet Ponair			
93.	· •	·	120 Dograps		
	0 Degrees	60 Degrees	120 Degrees		
94.	Drive End Bearing Shaft Fit Post Rep	air			
	0 Degrees	60 Degrees	120 Degrees		
			-		
95.	Opposite Drive End Bearing Shaft Fit				
	0 Degrees	60 Degrees	120 Degrees		
06	Shaft Air Seal Fits Post Repair				
90.	Drive End Air Seal	Opposite Drive End Air Seal			
	DIIVE LIIU AII SEAI	Opposite Drive Eriu Ali Sedi			
97.	Shaft Repair Sign-off				
	-				

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Mecha	Mechanical Fits- Bearing Housings - Post Repair				
98.	Drive End - Endbell Bearing Fit Post F	Repair			
	0 Degrees	60 Degrees	120 Degrees		
99.	Opposite Drive End - Endbell Bearing	·			
	0 Degrees	60 Degrees	120 Degrees		
100	Bearing Cap Condition Post Repair				
100.	Drive End Bearing Cap	Opposite Drive End Bearing Cap			
	Drive Life Bearing Cap	Opposite Drive Life Bearing Cap			
101.	End Bell Air Seal Fits Post Repair				
	Drive End Air Seal	Opposite Drive End Air Seal			
102.	DE Sleeve Bearing Inside ID Post Rep				
	Measure 1	Measure 2	Measure 3		
400	DE Classes Bassins Cutaids ID Bast D	i-			
103.	DE Sleeve Bearing Outside ID Post R	•	Magazina		
	Measure 1	Measure 2	Measure 3		
104.	DE Sleeve Bearing Inside OD Post Re	epair			
	Measure 1	Measure 2	Measure 3		
105.	DE Sleeve Bearing Outside OD Post I	Repair			
	Measure 1	Measure 2	Measure 3		
100					
	End Bell Repair Sign-off				
107.	ODE Sleeve Bearing Inside ID Post R	-	Marana		
	Measure 1	Measure 2	Measure 3		
108.	ODE Sleeve Bearing Outside ID Post	Repair			
	Measure 1	Measure 2	Measure 3		
109.	ODE Sleeve Bearing Inside OD Post I	Repair			
	Measure 1	Measure 2	Measure 3		
110.	ODE Sleeve Bearing Outside OD Pos	·			
	Measure 1	Measure 2	Measure 3		
Assen	nbly				
	QC Check All Parts for Cleanliness Pr	ior to Assembly			
	Photograph All Major Components pri	-			
	Final Insulation Resistance Test	•			
	Assembled Shaft Endplay				
	Assembled Shaft Runout				
116.	Test Run Voltage				
	Volts	Volts	Volts		

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117	Test Run Amperage		
117.	Amps	Amps	Amps
	Allips	Апро	Allips
118.	Drive End Vibration Readings - Inches	s Per Second	
	Horizontal	Vertical	Axial
119.	Opposite Drive End Vibration Reading	gs - Inches Per Second	
	Horizontal	Vertical	Axial
400	Austriant Tanananatura   Fabruaria		
	Ambient Temperature - Fahrenheit	:4	
121.	Drive End Bearing Temps - Fahrenhe 5 Minutes	10 Minutes	15 Minutos
	5 Minutes	10 Minutes	15 Minutes
122.	Drive End Bearing Temps - Fahrenhe	it 20-30 Minutes	
	20 Minutes	25 Minutes	30 Minutes
123.	Drive End Bearing Temps - Fahrenhe	it 35-45 Minutes	
	35 Minutes	40 Minutes	45 Minutes
104	Drive End Boaring Temps February	it EO GO Minutos	
124.	Drive End Bearing Temps - Fahrenhe		CO Minutes
	50 Minutes	55 Minutes	60 Minutes
125.	Opposite Drive End Bearing Temps -	Fahrenheit	
	5 Minutes	10 Minutes	15 Minutes
126.	Opposite Drive End Bearing Temps -	Fahrenheit 20-30 Minutes	
	20 Minutes	25 Minutes	30 Minutes
407	Opposite Drive Ford Decrine Towns	Eshaphait OF 45 Minutes	
127.	Opposite Drive End Bearing Temps - 35 Minutes	40 Minutes	45 Minutos
	35 Millutes	40 Minutes	45 Minutes
128.	Opposite Drive End Bearing Temps -	Fahrenheit 50-60 Minutes	
	50 Minutes	55 Minutes	60 Minutes
129.	Stator Temperatures- Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
120	Stater Temperatures Enhance 200	20 Minutos	
130.	Stator Temperatures- Fahrenheit 20-3 20 Minutes	25 Minutes	30 Minutes
	20 Minutes	25 Millutes	30 Millutes
131.	Stator Temperatures- Fahrenheit 35-4	15 Minutes	
	35 Minutes	40 Minutes	45 Minutes
132.	Stator Temperatures- Fahrenheit 50-6		
	50 Minutes	55 Minutes	60 Minutes
400	Decrement Final Condition with Dist	an after paint	
	Document Final Condition with Picture	es alter paint	
134.	Final Pics and QC Review		

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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.
- 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.