

LR Motor Shop Repairs

Job Number 102200

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: 874014

1.0



FolderID: 102200

FormID: 18714334



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: 874014

Hi-Speed Job Number:	102200
Manufacturer:	Other
Product Number:	TYPE CD18-5380
Serial Number:	874014
HP/kW:	3 (HP)
RPM:	1800 (RPM)
Voltage:	230 / 460
Current:	6.0/3.0
Phase:	Three
Hz:	60 (Hz)
Enclosure:	TENV
J-box Included:	Complete
Date Received:	12/13/2023

Priorities Found: 7 - Good

Overall Condition

- Report Date
- Nameplate Picture





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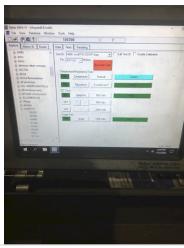












3.	Photos of all six sides of the machine.		
4.	Describe the Overall Condition of the Equipment as Received		
	Serviceable		
5.	Distance from the end of the shaft to the Coupling/Sheave	inches	
tial	Mechanical/Electrical		
6.	Does Shaft Turn Freely?	(Yes) Yes	
7.	Does Shaft Have Visible Damage?	(No) No	
8.	Assembled Shaft Runout	Inches	
9.	Assembled Shaft End Play	inches	
10.	Air Gap Variation <10%		
11.	Lead Condition	(P) Pass	
12.	Lead Length	57 Inches	
	4. 5. tial 6. 7. 8. 9. 10. 11.	 Describe the Overall Condition of the Equipment as Received Serviceable Distance from the end of the shaft to the Coupling/Sheave Mechanical/Electrical Does Shaft Turn Freely? Does Shaft Have Visible Damage? Assembled Shaft Runout Assembled Shaft End Play Air Gap Variation <10% Lead Condition 	





13.	Lead Numbers			6
14.	4. Stator Temperature Detector Rating and Function			
	Quantity	Rating	Quantity Passed	
15.	5. Bearing Temperature Detector Rating and Function			
	Quantity	Rating	Quantity Passed	
16.	Frame Condition		p	ass
17.	Fan Condition			

18. Heater Quantity, Ratings
Quantity Volts/Watts Pass/Fail

19. Broken or Missing Components none

Initial Electrical Inspection

20. Insulation Resistance/Megger Megohms



21. Winding Resistance

1-2 1-3 2-3



22. Perform Surge Test (P) Pass



23.	Number of Stator Slots	36
24.	Stator Condition	pass
25.	Stator Thermistors/Ohms	
26.	Stator Overloads/Ohms	
Mecha	anical Inspection	
27.	Drive End Bearing Brand	SKF
28.	Drive End Bearing Number-	NJ2309 ECP/C4



29. Drive End Bearing Qty.	1
30. Drive End Bearing Type	(Roller) Roller Bearing
31. Drive End Lubrication Type	(Grease) Grease Lubricated
32. Drive End Bearing Insulation or Grounding Device?	
33. Drive End Wavy Washer/Snap-Ring Other Retention Device?	
34. Drive End Bearing Condition	replace
35. Opposite Drive End Bearing Brand	SKF
36. Opposite Drive End Bearing Number-	NJ 2309 ECP/C4



37. Opposite Drive End Bearing Qty.	1
38. Opposite Drive End Bearing Type	(Roller) Roller Bearing
39. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
40. Opposite Drive End Bearing Insulation or Grounding Device?	
41. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	
42. Opposite Drive End Bearing Condition	replace
43. Drive End Seal	

44.	Opposite Drive End Seal		
45.	DE Sleeve Bearing Inside Diameter		
	0 degrees	120 degrees	240 degrees
46.	DE Sleeve Bearing Outside Diameter		
	0 degrees	120 degrees	240 degrees
47.	DE Sleeve Bearing Housing Inside Dia	ameter	
	0 degrees	120 degrees	240 degrees
48.	DE Sleeve Bearing to Housing Cleara		
	0 degrees	120 degrees	240 degrees
40	00501 0 1 1 1 0		
49.	ODE Sleeve Bearing Inside Diameter		
	0 degrees	120 degrees	240 degrees
FO	ODE Clasus Bassing Outside Diamete		
50.	ODE Sleeve Bearing Outside Diamete		0.40
	0 degrees	120 degrees	240 degrees
51	ODE Sleeve Bearing Housing Inside [Diameter	
51.			040 dansa
	0 degrees	120 degrees	240 degrees
52.	ODE Sleeve Bearing to Housing Clear	rance	
52.			040 damas
	0 degrees	120 degrees	240 degrees

Rotor Inspection

53. Rotor Type/Material

(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast



54. Growler Test	(Pass) Pass
55. Number of Rotor Bars	43
56. Rotor Condition	pass
57. List the Parts needed for the Repair Below	
2) SKF N I 2309 FCP/C4 hearings	

	/-	Signature of Technician that Disasser	nbled Motor	Terrence	Holland
IV		anical Fits- Rotor Shaft Runout			inches
		Rotor Runout			inches
	00.	Drive End Bearing Fit	Rotor Body	Opposite Drive End B	Searing
	61.	Coupling Fit Closest to Bearing Housi	ng		
		0 Degrees	90 Degrees	120 Degrees	
	62.	Coupling Fit Closest to the end of the	Shaft		
		0 Degrees	60 Degrees	120 Degrees	
	63.	Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
		1.7718	1.7718	1.7718	
		Drive End Bearing Shaft Fit Condition			(P) Pass
	65.	Opposite Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
		1.7718	1.7716	1.7716	
	66.	Opposite Drive End Bearing Shaft Fit	Condition		(P) Pass
	67.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
N		anical Fits- Bearing Housings			
	68.	Drive End - Endbell Bearing Fit			
		0 Degrees	60 Degrees	120 Degrees	
	69.	Drive End - Endbell Bearing Fit Condi			(P) Pass
	70.	-11			
		0 Degrees	60 Degrees	120 Degrees	
	71.	Opposite Drive End - Endbell Bearing	Fit Condition		(P) Pass
	72.	Bearing Cap Condition			
		Drive End Bearing Cap	Opposite Drive End Bearing Cap		
		pass	pass		
	73.	End Bell Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
	74.	List Machine Work Needed Below None			

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75. Technician Terrence Holland Jelle - J **Root Cause of Failure** 76. Failure locations Bearings and bearing grease. 77. Root cause of failure **Dynamic Balance Report** 78. Rotor Weight and Balance Grade Balance Grade Rotor Weight 79. Initial Balance Readings Drive End Opposite Drive End 80. Final Balance Readings Drive End Opposite Drive End 81. Technician Rewind 82. Core Test Results - Watts loss per Pound Pre-Burnout Post Burnout 83. Core Hot Spot Test Pre-Burnout Post-Burnout 84. Post Rewind Electrical Test- Insulation Resistance 85. Post Rewind Polarization Index 86. Post Rewind Winding Resistance 1-2 1-3 2-3 87. Post Rewind Surge Test 88. Post Rewind Hi-Pot 89. Technician Mechanical Fits- Rotor - Post Repair 90. Shaft Runout Post Repair 91. Rotor Runout Post Repair Drive End Bearing Fit Rotor Body Opposite Drive End Bearing 92. Coupling Fit Closest to Bearing Housing Post Repair 120 Degrees 0 Degrees 90 Degrees 93. Coupling Fit Closest to the end of the Shaft Post Repair 0 Degrees 60 Degrees 120 Degrees

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94.	Drive End Bearing Shaft Fit Post Repair			
	0 Degrees	60 Degrees	120 Degrees	
05	On a seite Daire Ford Descripe Obert Fit	Dant Danisis		
95.	Opposite Drive End Bearing Shaft Fit	•	120 Dograpa	
	0 Degrees	60 Degrees	120 Degrees	
96.	Shaft Air Seal Fits Post Repair			
	Drive End Air Seal	Opposite Drive End Air Seal		
07	01 (15 : 0: (1			
	Shaft Repair Sign-off anical Fits- Bearing Housings - P	ost Ponair		
	Drive End - Endbell Bearing Fit Post F	-		
30.	0 Degrees	60 Degrees	120 Degrees	
	o Degrees	oo begrees	120 Degrees	
99.	Opposite Drive End - Endbell Bearing	Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
100	Bearing Cap Condition Post Repair			
100.	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	Drive End Bearing Cap	Opposite Drive End 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 Re			
	Measure 1	Measure 2	Measure 3	
103.	103. DE Sleeve Bearing Outside ID Post Repair			
	Measure 1	Measure 2	Measure 3	
104.	DE Sleeve Bearing Inside OD Post Re			
	Measure 1	Measure 2	Measure 3	
105.	DE Sleeve Bearing Outside OD Post	Repair		
	Measure 1	Measure 2	Measure 3	
	End Bell Repair Sign-off			
107.	ODE Sleeve Bearing Inside ID Post R	•	Mariana	
	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	•		
	Measure 1	Measure 2	Measure 3	
110	ODE Sleeve Bearing Outside OD Pos	t Repair		
3.	Measure 1	Measure 2	Measure 3	
Asser	Assembly			

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112. Photograph All Major Components prior to assembly

(Complete) Complete













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113. Final Insulation Resistance Test

Megohms

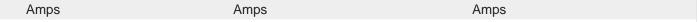


114. Assembled Shaft Endpla	ay		inches
115. Assembled Shaft Runou Na	ıt		inches
116. Test Run Voltage			
Volts	Volts	Volts	
Co sign: TRH			





117. Test Run Amperage





118.	18. Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
-	Na		
119.	Opposite Drive End Vibration Reading	s - Inches Per Second	
	Horizontal	Vertical	Axial
-	Na		
120.	20. Ambient Temperature - Fahrenheit		
-	Na		
121.	21. Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
-	Na		
122.	22. Drive End Bearing Temps - Fahrenheit 20-30 Minutes		
	20 Minutes	25 Minutes	30 Minutes
-	Na		

123.	Drive End Bearing Temps - Fahrenhe	it 35-45 Minutes	
	35 Minutes	40 Minutes	45 Minutes
7	Na		
124.	Drive End Bearing Temps - Fahrenheit 50-60 Minutes		
	50 Minutes	55 Minutes	60 Minutes
_	Na		
-	Opposite Drive End Bearing Temps - Fahrenheit		
120.	5 Minutes	10 Minutes	15 Minutes
	o Minutes	10 Millates	10 Millutes
-	Na		
126.	Opposite Drive End Bearing Temps -	Fahrenheit 20-30 Minutes	
	20 Minutes	25 Minutes	30 Minutes
_	Mo		
107	Na Opposite Drive End Bearing Temps - Fahrenheit 35-45 Minutes		
121.	35 Minutes	40 Minutes	45 Minutes
	33 Williates	40 Millutes	45 Millutes
-	Na		
128.	Opposite Drive End Bearing Temps - Fahrenheit 50-60 Minutes		
	50 Minutes	55 Minutes	60 Minutes
_			
100	Na Ctatan Tanananatanan Fahiran kait		
129.	Stator Temperatures- Fahrenheit	40 Minutes	45 Minutes
	5 Minutes	10 Minutes	15 Minutes
-	Na		
130.	Stator Temperatures- Fahrenheit 20-3	30 Minutes	
	20 Minutes	25 Minutes	30 Minutes
—	Na		
131.	Stator Temperatures- Fahrenheit 35-4		45 Minutes
	35 Minutes	40 Minutes	45 Minutes
-	Na		
132.	Stator Temperatures- Fahrenheit 50-60 Minutes		
	50 Minutes	55 Minutes	60 Minutes
•	Na		
33.	Document Final Condition with Picture	es after paint	

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 Cw

134. Final Pics and QC Review

m

Co sign: DWM



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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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