

AC Recondition As Found Almatis Inc/RCP Bauxite (10014)

FolderID: 100914 FormID: 15984879

AC Recondition - Rev. 2

4701 Alcoa Road Bauxite, AR 72011

Location:	LR Motor Shop		
Serial Number:	S9084777-001003 HN		
Description: 7.5HP RELIANCE 900RPM 256T			

Hi-Speed Job Number: Manufacturer: Reliance ECP2401T-4 **Product Number:** Spec/ID #: ECP2401T-4 Serial Number: S9084777-001003 HN HP/kW: 7.5 (HP) RPM: 880 (RPM) Frame: 256T Voltage: 460 Current: 10.5 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**

100914

Priorities Found: **4 - High**

- 2 Good
- **Overall Condition**
- 1. **Report Date**
 - 2. Nameplate Picture



Photos of all six sides of the machine. 3.

P44

P37

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

Ο

























4. Describe the Overall Condition of the Equipment as Received *Fan cover broken and needs to be replaced*

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

P54



Initial Mechanical/Electrical

- 5. Does Shaft Turn Freely?
- 6. Does Shaft Have Visible Damage?

(No) No

Ο

P20

P53



- 7. Assembled Shaft Runout
- 8. Assembled Shaft End Play
- 9. Air Gap Variation <10%
- 10. Lead Condition



11. Lead Length

12. Frame Condition

8 Inches

pass



14. Broken or Missing Components

Eyebolt bent and needs to be replaced.





Initial E	Initial Electrical Inspection			
15.	Insulation Resistance/Megger			
16.	Winding Resistance			
	1-2	1-3	2-3	

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.



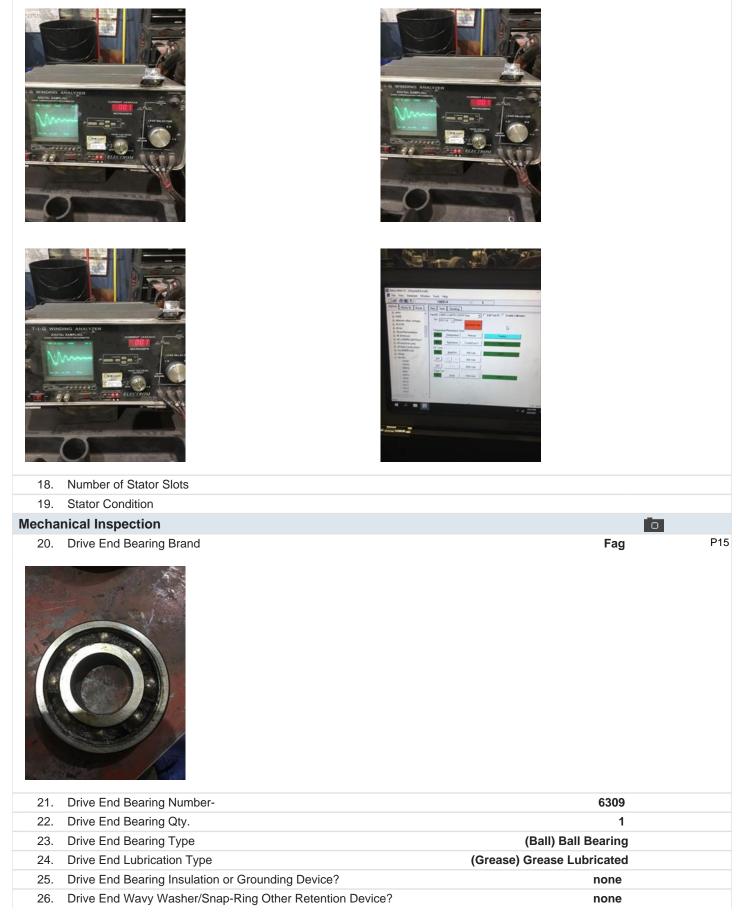
Fan cover/Fan broken/needs to be replaced

(F) Fail

P91

P94





2	7.	Drive End Bearing Condition		replace	
2	8.	Opposite Drive End Bearing Brand	d	Fag	
2	9.	Opposite Drive End Bearing Number-		6309	
3	0.	Opposite Drive End Bearing Qty.		1	
3	1.	Opposite Drive End Bearing Type		(Ball) Ball Bearing	
3	2.	Opposite Drive End Lubrication Ty	уре	(Grease) Grease Lubricated	
3	3.	Opposite Drive End Bearing Insula	ation or Grounding Device?	none	
3	4.	Opposite Drive End Wavy Washe	r/Snap-Ring Other Retention Device?	none	
3	5.	Opposite Drive End Bearing Cond	lition	replace	
3	6.	Drive End Seal			
3	7.	Opposite Drive End Seal		dust seal	
Roto	or lı	nspection			
	8.	Rotor Type/Material		(Squirrel Aluminum) Squirrel	
		, , , , , , , , , , , , , , , , , , ,		Cage Aluminum Die Cast	
3	9.	Growler Test			
4	0.	Number of Rotor Bars			
4	1.	Rotor Condition			
4	2.	List the Parts needed for the Repa	air Below		
		2 309 sleeves			
4	3.	Signature of Technician that Disas	ssembled Motor	Terrence Holland	
		1			
		_			
			1/1/		
	/	0			
	-				
Mec	Mechanical Fits- Rotor				
	4.	Shaft Runout			
-	 5.	Rotor Runout			
-	0.	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
		Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
1	6.	Coupling Fit Closest to Bearing H	oucing		
4	0.		-		
		0 Degrees	90 Degrees	120 Degrees	
	_				
4	7.	Coupling Fit Closest to the end of			
		0 Degrees	60 Degrees	120 Degrees	
4	8.	Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
		1.7722	1.772	1.7721	
• 4	9.	Drive End Bearing Shaft Fit Cond	ition	(P) Pass	
5	0.	Opposite Drive End Bearing Shafe	t Fit		
		0 Degrees	60 Degrees	120 Degrees	
		1.7717	1.7716	1.7715	
• 5	1.	Opposite Drive End Bearing Shaft	t Fit Condition	(F) Fail	
5	2.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		

	=0			
	53.	Drive End - Endbell Bearing Fit		
		0 Degrees	60 Degrees	120 Degrees
		3.9382	3.9384	3.9384
	54.	Drive End - Endbell Bearing Fit Co	ondition	(F) Fail
	55.	Opposite Drive End - Endbell Bea	ring Fit	
		0 Degrees	60 Degrees	120 Degrees
		3.9383	3.9384	3.9383
	56.	Opposite Drive End - Endbell Bea	ring Fit Condition	(F) Fail
	57.	Bearing Cap Condition	0	P5
		Drive End Bearing Cap	Opposite Drive End Bearing Cap	
		0		
	58.	End Bell Air Seal Fits		
		Drive End Air Seal	Opposite Drive End Air Seal	
	59.	List Machine Work Needed Below		
	59.			
	~~	Sleeve both housing fits, and repair	r ode snart bearing journal.	
	60.	Technician		Terrence Holland
Dy	ynam	ic Balance Report		
	61.	Rotor Weight and Balance Grade		
		Rotor Weight	Balance Grade	
	62.	Initial Balance Readings		
		Drive End	Opposite Drive End	
	62	Final Palance Peedinge		
	63.	Final Balance Readings		
		Drive End	Opposite Drive End	
	64.	Technician		
Re	ewind	ł		

65.	Core Test Results - Watts loss p	er Pound		
	Pre-Burnout	Post Burnout		
66.	Core Hot Spot Test			
	Pre-Burnout	Post-Burnout		
67.	Post Rewind Electrical Test- Insu	ulation Resistance		
68.	Post Rewind Polarization Index			
69.	Post Rewind Winding Resistance	9		
	1-2	1-3	2-3	
70.	Post Rewind Surge Test			
71.	Post Rewind Hi-Pot			
72.	Technician			
Root 0	Cause of Failure			
73.	Failure locations			
74.	Root cause of failure			
Mecha	anical Fits- Rotor - Post Repa	ir		
75.				
76.	Rotor Runout Post Repair			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
77.	1 0 0	- ·		
	0 Degrees	90 Degrees	120 Degrees	
78.	Coupling Fit Closest to the end of			
	0 Degrees	60 Degrees	120 Degrees	
79.	Drive End Bearing Shaft Fit Post		100 5	
	0 Degrees	60 Degrees	120 Degrees	
00				
80.		·		
	0 Degrees	60 Degrees	120 Degrees	
81.	Shaft Air Seal Fits Post Repair			
01.	Drive End Air Seal	Opposite Drive End Air Seal		
	Drive End Ali Seal	Opposite Drive End All Seal		
82.	Shaft Repair Sign-off			
	anical Fits- Bearing Housings	- Post Renair		
83.		•		
00.	0 Degrees	60 Degrees	120 Degrees	
	U Degrees	00 Degrees	120 Degrees	
84.	Opposite Drive End - Endbell Be	aring Fit Post Repair		
. .	0 Degrees	60 Degrees	120 Degrees	
	U DOGIOOD	ou Dogrood	LU Dogroos	

85.			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
86.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
	End Bell Repair Sign-off		
Assem	bly		
88.	QC Check All Parts for Cleanlines	s Prior to Assembly	
89.	Photograph All Major Components	s prior to assembly	
90.	Final Insulation Resistance Test		
91.	Assembled Shaft Endplay		
92.	Assembled Shaft Runout		
93.	Test Run Voltage		
	Volts	Volts	Volts
94.	Test Run Amperage		
	Amps	Amps	Amps
95.	Drive End Vibration Readings - In	ches Per Second	
	Horizontal	Vertical	Axial
96.	Opposite Drive End Vibration Rea	dings - Inches Per Second	
	Horizontal	Vertical	Axial
97.	Ambient Temperature - Fahrenheit		
98.	Drive End Bearing Temps - Fahre	nheit	
	5 Minutes	10 Minutes	15 Minutes
99.	Opposite Drive End Bearing Temp	os - Fahrenheit	
	5 Minutes	10 Minutes	15 Minutes
100.	Document Final Condition with Pie	ctures after paint	
	Final Pics and QC Review	·	
	• • • •		