

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

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P35

P45

FolderID: 102393 FormID: 19258597

4701 Alcoa Road

Bauxite, AR 72011

AC Inspection - Rev. 2

Location:	LR Motor Shop	
Serial Number:	P18G7185D JZ	

Description:1.5HP RELIANCE 1800RPM 182TDZ SHAKER

Hi-Speed Job Number:	102393
Manufacturer:	Reliance
Product Number:	P18G7185D JZ
HP/kW:	1.5 (HP)
RPM:	1755 (RPM)
Frame:	182TDZ
Voltage:	460
Current:	2.5
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.00
Enclosure:	TENV
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: **7 - Good**

Overall Condition

- 1. Report Date
- 2. Nameplate Picture



3. Photos of all six sides of the machine.

























































	4.	Describe the Overall Condition of the Equipment as Received		
		Serviceable		
Init	tial I	Mechanical/Electrical		
	5.	Does Shaft Turn Freely?	(Yes) Yes	
	6.	Does the shaft require T.I.R in Lathe to identify additional repairs?		
	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	Inches	
ų		5' 4"		
	13.	DOES IT HAVE LUGS, IF SO WHAT ARE THE SPECS, STUD SIZE? AND CABLE SIZE?		
	14.	Lead Numbers	1-3	
	15.	Frame Condition	pass	
	16.	Fan Condition	(N) NA	
	17.	Broken or Missing Components	none	
Init	tial E	Electrical Inspection	l l l l l l l l l l l l l l l l l l l	

	18.	Insulation Resistance/Megger			Megohms	P8
	19.	Winding Resistance				
		1-2	1-3	2-3		
	20.	Perform Surge Test			(P) Pass	P57
	21.	Number of Stator Slots			36	
	22.	Stator Condition				
	•	Oil saturation on windings but pas	sed surge test.			
	23.	Stator Thermistors/Ohms				
	24.	Stator Overloads/Ohms				
M		nical Inspection			0	
	25.	Drive End Bearing Brand			Коуо	

Drive End Bearing Qty. 27. 1 28. Drive End Bearing Type (Ball) Ball Bearing 29. Drive End Lubrication Type (Grease) Grease Lubricated 30. Drive End Bearing Insulation or Grounding Device? 31. Drive End Wavy Washer/Snap-Ring Other Retention Device? 32. Drive End Bearing Condition replace P86 Opposite Drive End Bearing Brand Fag 33. 34. Opposite Drive End Bearing Number-6205 35. Opposite Drive End Bearing Qty. 1 36. Opposite Drive End Bearing Type (Ball) Ball Bearing 37. Opposite Drive End Lubrication Type (Grease) Grease Lubricated Opposite Drive End Bearing Insulation or Grounding Device? 38. P99 Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device? wavy washer 39.

26. Drive End Bearing Number-

6206 Z C3

P33

40.	Opposite Drive End Bearing C	Condition	replace	
41.	Drive End Seal			
42.				
Rotor	Inspection			
43.			(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
44.			(Pass) Pass	
45.			28	
46.			pass	
47.		Repair Below		
48.	Bearings Signature of Technician that D	Disassembled Motor	Terrence Holland	
/	Signature of Technician that D	Disassembled Motor	Terrence Holland	
Mecha	Signature of Technician that D	Disassembled Motor		
Mech 49.	Signature of Technician that D	Disassembled Motor	Terrence Holland 0.002 inches	
Mecha	Signature of Technician that D anical Fits- Rotor Shaft Runout Rotor Runout	IL_	0.002 inches	
Mech 49.	Signature of Technician that D	Disassembled Motor		
Mech 49. 50.	Signature of Technician that D anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit	Rotor Body	0.002 inches	
Mech 49.	Signature of Technician that D Anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit Coupling Fit Closest to Bearing	Rotor Body g Housing	0.002 inches Opposite Drive End Bearing	
Mech 49. 50.	Signature of Technician that D anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit	Rotor Body	0.002 inches	
Mech 49. 50.	Signature of Technician that D anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit Coupling Fit Closest to Bearin 0 Degrees	Rotor Body g Housing 90 Degrees	0.002 inches Opposite Drive End Bearing	
Mech 49. 50.	Signature of Technician that D Signature of Technician that D Signature of Technician that D Shaft Runout Rotor Runout Drive End Bearing Fit Coupling Fit Closest to Bearing 0 Degrees Coupling Fit Closest to the end	Rotor Body g Housing 90 Degrees d of the Shaft	0.002 inches Opposite Drive End Bearing 120 Degrees	
Mech 49. 50.	Signature of Technician that D anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit Coupling Fit Closest to Bearin 0 Degrees	Rotor Body g Housing 90 Degrees	0.002 inches Opposite Drive End Bearing	
Mecha 49. 50. 51. 52.	Signature of Technician that D Signature of Technician that D Signature of Technician that D Shaft Runout Rotor Runout Drive End Bearing Fit Coupling Fit Closest to Bearin 0 Degrees Coupling Fit Closest to the end 0 Degrees	Rotor Body g Housing 90 Degrees d of the Shaft	0.002 inches Opposite Drive End Bearing 120 Degrees	
Mech 49. 50.	Signature of Technician that D anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit Coupling Fit Closest to Bearin 0 Degrees Coupling Fit Closest to the end 0 Degrees Drive End Bearing Shaft Fit	Rotor Body g Housing 90 Degrees d of the Shaft 60 Degrees	0.002 inches Opposite Drive End Bearing 120 Degrees 120 Degrees	
Mecha 49. 50. 51. 52.	Signature of Technician that D Signature of Technician that D Signature of Technician that D Shaft Runout Rotor Runout Drive End Bearing Fit Coupling Fit Closest to Bearin 0 Degrees Coupling Fit Closest to the end 0 Degrees	Rotor Body g Housing 90 Degrees d of the Shaft	0.002 inches Opposite Drive End Bearing 120 Degrees	
Mecha 49. 50. 51. 52.	Signature of Technician that D Signature of Technician that D Signature of Technician that D Shaft Runout Anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit Coupling Fit Closest to Bearing 0 Degrees Coupling Fit Closest to the end 0 Degrees Drive End Bearing Shaft Fit 0 Degrees 1.1816	Rotor Body g Housing 90 Degrees d of the Shaft 60 Degrees 60 Degrees 1.1815	0.002 inches Opposite Drive End Bearing 120 Degrees 120 Degrees	
Mecha 49. 50. 51. 52. 53.	Signature of Technician that D Signature of Technician that D Anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit Coupling Fit Closest to Bearin 0 Degrees Coupling Fit Closest to the end 0 Degrees Drive End Bearing Shaft Fit 0 Degrees 1.1816 Drive End Bearing Shaft Fit Co	Rotor Body g Housing 90 Degrees d of the Shaft 60 Degrees 1.1815 ondition	0.002 inches Opposite Drive End Bearing 120 Degrees 120 Degrees 120 Degrees 120 Degrees 120 Degrees	
Mecha 49. 50. 51. 52. 53. 53.	Signature of Technician that D Signature of Technician that D Anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit Coupling Fit Closest to Bearin 0 Degrees Coupling Fit Closest to the end 0 Degrees Drive End Bearing Shaft Fit 0 Degrees 1.1816 Drive End Bearing Shaft Fit Co	Rotor Body g Housing 90 Degrees d of the Shaft 60 Degrees 1.1815 ondition	0.002 inches Opposite Drive End Bearing 120 Degrees 120 Degrees 120 Degrees 120 Degrees 120 Degrees	

	56.				
		Opposite Drive End Bearing Shaft	Fit Condition	(P) Pass	
	57.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
					-
Me		nical Fits- Bearing Housings			O
	58.	Drive End - Endbell Bearing Fit			
		0 Degrees	60 Degrees	120 Degrees	
		2.4413	2.4415	2.4414	
	59.	Drive End - Endbell Bearing Fit Co		(P) Pass	
	60.	Opposite Drive End - Endbell Bea	ring Fit		
		0 Degrees	60 Degrees	120 Degrees	
		2.0477	2.0476	2.0476	
	61.	Opposite Drive End - Endbell Bea	ring Fit Condition	(P) Pass	
	62.	Bearing Cap Condition			P51
		Drive End Bearing Cap	Opposite Drive End Bearing Cap		
		pass			
		000			
	63.	End Bell Air Seal Fits			
	63.	End Bell Air Seal Fits Drive End Air Seal	Opposite Drive End Air Seal		
	63.64.	Drive End Air Seal List Machine Work Needed Below			
	64.	Drive End Air Seal List Machine Work Needed Below <i>None</i>		Terrence Holland	
		Drive End Air Seal List Machine Work Needed Below		Terrence Holland	
,	64. 65.	Drive End Air Seal List Machine Work Needed Below <i>None</i>		Terrence Holland	
,	64. 65.	Drive End Air Seal List Machine Work Needed Below <i>None</i> Technician		Terrence Holland	
,	64. 65.	Drive End Air Seal List Machine Work Needed Below None Technician August of Failure	llag	Terrence Holland	
Ro	64. 65.	Drive End Air Seal List Machine Work Needed Below None Technician ause of Failure Failure locations O ring Seals allowed oil to leak into	llag	Terrence Holland	
Ro	64. 65.	Drive End Air Seal List Machine Work Needed Below None Technician ause of Failure Failure locations O ring Seals allowed oil to leak into	the stator.	Terrence Holland	

68.	Rotor Weight and Balance Grade			
	Rotor Weight	Balance Grade		
69.	Initial Balance Readings			
	Drive End	Opposite Drive End		
70.	Final Balance Readings			
	Drive End	Opposite Drive End		
74	Tachnician			
71. Rewin	Technician			
72.	Core Test Results - Watts loss pe	ar Pound		
12.	Pre-Burnout	Post Burnout		
73.	Core Hot Spot Test			
	Pre-Burnout	Post-Burnout		
74.	Post Rewind Electrical Test- Insul	lation Resistance		
75.	Post Rewind Polarization Index			
76.	Post Rewind Winding Resistance			
	1-2	1-3	2-3	
77.	Post Rewind Surge Test			
78.	Post Rewind Hi-Pot			
79.	Technician			
	nical Fits- Rotor - Post Repair	r		
	Shaft Runout Post Repair Rotor Runout Post Repair			
01.	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
	Drive End Dearing Fit	Rotor Body	Opposite Drive End Deaning	
82.	Coupling Fit Closest to Bearing H	ousing Post Repair		
	0 Degrees	90 Degrees	120 Degrees	
	-	-	-	
83.	Coupling Fit Closest to the end of	the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
84.	Drive End Bearing Shaft Fit Post	Repair		
	0 Degrees	60 Degrees	120 Degrees	
85.	Opposite Drive End Bearing Shaf	·		
	0 Degrees	60 Degrees	120 Degrees	
00	Choft Air Cool Eite Dest Dess's			
86.	Shaft Air Seal Fits Post Repair	Opposite Drive End Air Seel		
	Drive End Air Seal	Opposite Drive End Air Seal		
87.	Shaft Repair Sign-off			
	nical Fits- Bearing Housings	- Post Renair		

88.	Drive End - Endbell Bearing Fit Po	ost Repair		
	0 Degrees	60 Degrees	120 Degrees	
89.	Opposite Drive End - Endbell Bea	ring Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
90.	Bearing Cap Condition Post Repa	ir		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
91.	End Bell Air Seal Fits Post Repair			
	Drive End Air Seal	Opposite Drive End Air Seal		
92.	End Bell Repair Sign-off			
Assem	bly			
93.	QC Check All Parts for Cleanlines	s Prior to Assembly		
94.	Photograph All Major Components	s prior to assembly		
95.	Final Insulation Resistance Test			
96.	Assembled Shaft Endplay			
97.	Assembled Shaft Runout			
98.	Test Run Voltage			
	Volts	Volts	Volts	
99.	Test Run Amperage			
	Amps	Amps	Amps	
100.	Drive End Vibration Readings - In	ches Per Second		
	Horizontal	Vertical	Axial	
101.	Opposite Drive End Vibration Rea	dings - Inches Per Second		
	Horizontal	Vertical	Axial	
102.	Ambient Temperature - Fahrenhe	it		
103.	Drive End Bearing Temps - Fahre	nheit		
	5 Minutes	10 Minutes	15 Minutes	
104.	Opposite Drive End Bearing Temp	os - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes	
105.	Document Final Condition with Pie	ctures after paint		
106.	Final Pics and QC Review			