

AC Recondition As Found

Arkansas Electric Coop. (11681)

17400 highway 365 south Little Rock, AR 72206

AC Recondition - Rev. 2

Location: MOTOR SHOP LR		
Serial Number:	F0206185395	
Description:7.5HP AMETEK BLOWER 3600RPM 215TCZ AMETEK PART 511570		

Hi-Speed Job Number:	100497
Manufacturer:	Baldor
Product Number:	511570
Spec/ID #:	07H383W361G1
Serial Number:	F0206185395
HP/kW:	7.5 (HP)
RPM:	3450 (RPM)
Frame:	215TCZ
Voltage:	230 / 460
Current:	22.2/11.1
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
J-box Included:	Half
Coupling/Sheave:	Propeller
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 🔵 3 - High

n 🛛 🔵 5 - Good

- **Overall Condition**
- 1. Report Date





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Needs 1 filter

3. Photos of all six sides of the machine. 4. Describe the Overall Condition of the Equipment as Received 5. Distance from the end of the shaft to the Coupling/Sheave Initial Mechanical/Electrical 6. Does Shaft Turn Freely? (Yes) Yes 7. Does Shaft Have Visible Damage? (No) No 8. Assembled Shaft End Play 10 10. Air Gap Variation <10% (P) Pass 711. Lead Condition (P) Pass 73 Image: Shaft End Play 11. Lead Condition (P) Pass 73 Image: Shaft End Play 74. Lead Length 12 Inches 75. Lead Length 12 Inches 76. Frame Condition pass	Needs 1	filter		
5. Distance from the end of the shaft to the Coupling/Sheave Initial Mechanical/Electrical 6. Does Shaft Tum Freely? (Yes) Yes 7. Does Shaft Have Visible Damage? (No) No 8. Assembled Shaft Runout	3.	Photos of all six sides of the machine.		
Initial Mechanical/Electrical Image: Construct of the second	4.	Describe the Overall Condition of the Equipment as Received		
6. Does Shaft Turn Freely? (Yes) Yes 7. Does Shaft Have Visible Damage? (No) No 8. Assembled Shaft Runout 9 9. Assembled Shaft End Play 10 10. Air Gap Variation <10%	5.	Distance from the end of the shaft to the Coupling/Sheave		
7. Does Shaft Have Visible Damage? (No) No 8. Assembled Shaft Runout	Initial	Mechanical/Electrical	0	
8. Assembled Shaft Runout 9. Assembled Shaft End Play 10. Air Gap Variation <10%	6.	Does Shaft Turn Freely?	(Yes) Yes	
9. Assembled Shaft End Play 10. 10. Air Gap Variation <10%	7.	Does Shaft Have Visible Damage?	(No) No	
10. Air Gap Variation <10%	8.	Assembled Shaft Runout		
11. Lead Condition (P) Pass P3 Image: State of the st	9.	Assembled Shaft End Play		
12. Lead Length 12 Inches	10.	Air Gap Variation <10%		
		Lead Condition	(P) Pass	Ρ32
13. Frame Condition pass	12.	Lead Length	12 Inches	
	13.	Frame Condition	pass	

15. Broken or Missing Components	
Initial Electrical Inspection	
16. Insulation Resistance/Megger	
17. Winding Resistance	
1-2 1-3 2-3	
18. Perform Surge Test (F) Fail	
19. Number of Stator Slots	
	P39
Mechanical Inspection	



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34.	Opposite Drive End Bearing Cor	ndition	pass	
35.	Drive End Seal		na	
36.	Opposite Drive End Seal		na	
Rotor	Inspection			
37.	Rotor Type/Material		(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
38.	Growler Test		(Pass) Pass	
39.	Number of Rotor Bars			
40.	Rotor Condition		pass	
41.	List the Parts needed for the Rep	pair Below		
42.	Signature of Technician that Dis	assembled Motor		
Mecha	inical Fits- Rotor			0
43.	Shaft Runout			
44.	Rotor Runout			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
45.	Coupling Fit Closest to Bearing I	Housing		
	0 Degrees	90 Degrees	120 Degrees	
46.	Coupling Fit Closest to the end of	of the Shaft		
	0 Degrees	60 Degrees	120 Degrees	
47.	Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	1.7718	1.7718	1.7718	
48.	Drive End Bearing Shaft Fit Con		(P) Pass	
49.	Opposite Drive End Bearing Sha		(1)1000	
10.	0 Degrees	60 Degrees	120 Degrees	
	1.181	1.181	1.181	
	1.101	1.101	1.101	

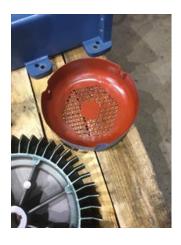
50.	Opposite Drive End Bearing S	haft Fit Condition		(P) Pass	P49
	To a la				
	The second				
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	C C				
0					
51.	Shaft Air Seal Fits				
	Drive End Air Seal	Opposite Drive End Air Seal			
	anical Fits- Bearing Housing			O	
52.	-				
	0 Degrees 3.9379	60 Degrees 3.9379	120 Degrees 3.9379		
53.			5.9579	(P) Pass	P7

54.	Opposite Drive End - Endbell Bear	ring Fit		P18
	0 Degrees	60 Degrees	120 Degrees	
	2.4404	2.4404	2.4404	
	.0005 undersized			
A 197				
1 .	(2) - Par			
	1			
1.4	CAR' LA			
X	100 C			
	A A A A A A A A A A A A A A A A A A A			
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5 5.	Opposite Drive End - Endbell Bear	ring Fit Condition		(F) Fail
	.0005 undersized			
56.	Bearing Cap Condition			P30
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	pass	na		
	- and the second			
5 4				
1 1				
	and the second second			
	Cand La			
	a c			
57.	End Bell Air Seal Fits Drive End Air Seal	Opposite Drive End Air Seal		
	Drive Eriu Ali Seai	Opposite Drive End All Seal		
58.	List Machine Work Needed Below			
	Ode end bell housing fit undersized			
59.	Technician			RW
_	- <i>,</i>			
#				
V				
Dynam	ic Balance Report			

Initial Balance Readings						

80.				
	Drive End Air Seal	Opposite Drive End Air Seal		
81.	Shaft Repair Sign-off			
Mecha	nical Fits- Bearing Housing	s - Post Repair		
82.	Drive End - Endbell Bearing Fit Post Repair			
	0 Degrees	60 Degrees	120 Degrees	
83.	Opposite Drive End - Endbell B	earing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
84.	Bearing Cap Condition Post Re	pair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
85.	End Bell Air Seal Fits Post Repa			
	Drive End Air Seal	Opposite Drive End Air Seal		
86.	End Bell Repair Sign-off			
Assem	bly			O
87.	Photograph All Major Compone	nts prior to assembly		
88.	Final Insulation Resistance Tes	t		
	Assembled Shaft Endplay			
	Assembled Shaft Runout			
91.	Test Run Voltage			
	Volts	Volts	Volts	
92.	Test Run Amperage			
	Amps	Amps	Amps	
00				
93.	Drive End Vibration Readings -		A · · 1	
	Horizontal	Vertical	Axial	
04	Opposite Drive End Vibration R	andinga Inchas Day Second		
94.		Vertical	Avia	
	Horizontal	ventical	Axial	
95.	Ambient Temperature - Fahrenl	neit		
96.	Drive End Bearing Temps - Fah			
00.	5 Minutes	10 Minutes	15 Minutes	
		io minutos		
97.	Opposite Drive End Bearing Te	mps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes	
98.	Final Test Run Sign-off			
99.	Document Final Condition with	Pictures after paint		P22
		-		

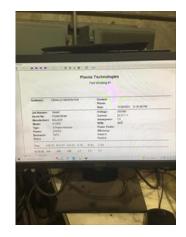
























Terrence Holland

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100. Final Pics and QC Review

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