

AC Inspection as Found Cerf Shelby LLC 7103 OLD MILLINGTON ROAD MILLINGTON, TN 38053

## AC Inspection - Rev. 2

Completed by: Brandon Woodard on 06/18/2024 Location:

Location.

Serial Number: A1307022093

Description:125 HP AC

FolderID: 153024 FormID: 20729002

•	
Manufacturer:	Baldor
Spec/ID #:	A44-4469-1796
Serial Number:	A1307022093
HP/kW:	125 (HP)
RPM:	1785 (RPM)
Frame:	444T
Voltage:	460
Current:	139 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1
Enclosure:	TEFC
# of Leads:	3
J-box Included:	None
Coupling/Sheave:	Coupling
Date Received:	06/13/2024
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Rewind:	Yes
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	Yes
Winding Type :	Random Wound
Bearing Type:	Rolling Element

153024

Hi-Speed Job Number:

Priorities Found: O 2 - High

9 - Good

Overall Condition

1. Report Date

06/18/2024

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## 2. Nameplate Picture



3. Photos of all six sides of the machine.









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P2

P3

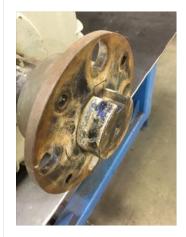




- 4. Describe the Overall Condition of the Equipment as Received Stator will run but surge test failed. Recommend rewind. No Machine work needed.
- 5. Distance from the end of the shaft to the Coupling/Sheave

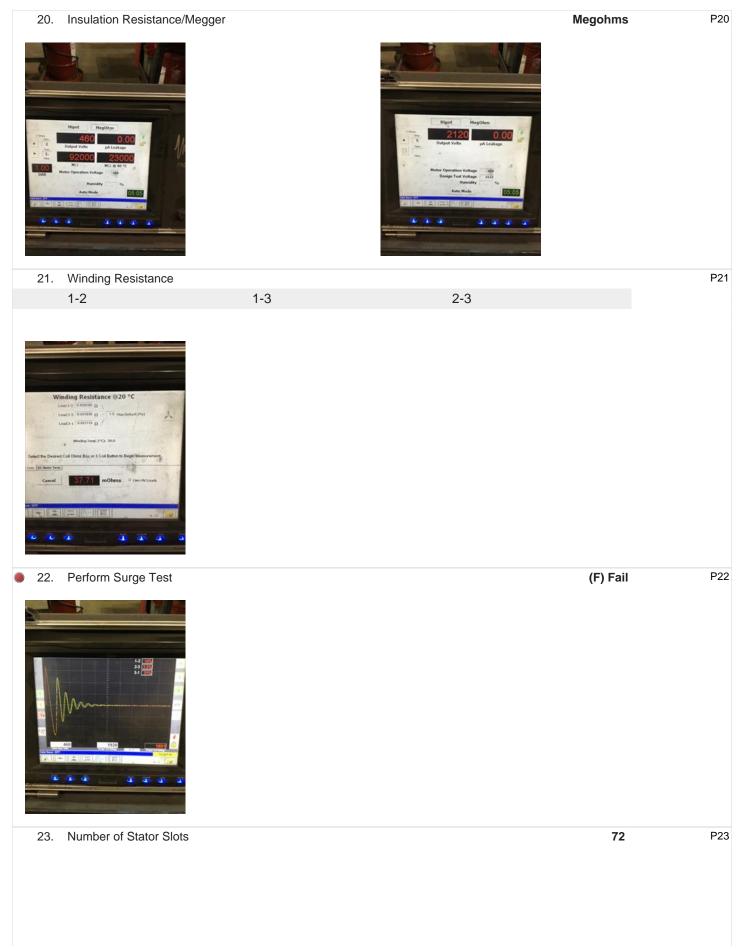
1.275 inches

P5



In	itial I	Mechanical/Electrical	lo l
	6.	Does Shaft Turn Freely?	(Y) Yes
	7.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
	8.	Does Shaft Have Visible Damage?	(No) No
	9.	Assembled Shaft Runout	0.001 Inches
	10.	Assembled Shaft End Play	0.001 inches
	11.	Air Gap Variation <10%	No Provisions for measurement

12.	Lead Condition			(P) Pass	P12
13.	Lead Length			20 Inches	
14.	Does it have Lugs?, If so what is	the Stud Size?		(No) No	
15.	Lead Numbers			1-3	
16.	Frame Condition Fan Condition			Pass (P) Pass	P17
					P18
18.	Heater Quantity, Ratings Quantity	Volts/Watts	Pass/Fail		P18
-	2				
19.	Broken or Missing Components			None	
	Electrical Inspection			None	
initial I				U	



24.	Stator Condition	Recommend Rewind	
-	Stator will run but surge test failed. Recommend rewind.		
25.	Stator Thermistors/Ohms	N/A	
26.	Stator Overloads/Ohms	N/A	-
<b>Mecha</b> 27.	nical Inspection Drive End Bearing Brand	FAG	D P27
28.	Drive End Bearing Number-	6318 ZZ C3	
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?	None	

33.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	None	
34.	Drive End Bearing Condition	pitted	PS
			P
36. 37.	Opposite Drive End Bearing Number- Opposite Drive End Bearing Qty.	6318 ZZ C3	
38.	Opposite Drive End Bearing Type	(Ball) Ball Bearing	
39.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
40. 41.	Opposite Drive End Bearing Insulation or Grounding Device? Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	None Wavy Washer	F
42.	Opposite Drive End Bearing Condition	Normal Wear	F



43.	Drive End Seal		None	
44.	Opposite Drive End Seal		None	_
	Inspection			0
45.			(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
46.	Growler Test		(Pass) Pass	
47.	Number of Rotor Bars		58	P47
48.	Rotor Condition		Pass	
49.	List the Parts needed for the Rep VA 90 x2 6318 ZZ C3 x2	air Below		
50.	Signature of Technician that Disa	assembled Motor	Brandon Woodard	
Mecha	inical Fits- Rotor			0
51.	Shaft Runout		0.001 inches	
52.	Rotor Runout			
	Drive End Bearing Fit 0.001	Rotor Body 0.001	Opposite Drive End Bearing 0.001	

53.	Coupling Fit Closest to Bearing	Housing		P53
	0 Degrees	90 Degrees	120 Degrees	
	3.375	3.375	3.375	
54.	Coupling Fit Closest to the end	of the Shaft		
	0 Degrees	60 Degrees	120 Degrees	
	3.375	3.375	3.375	
55.	Drive End Bearing Shaft Fit			P55
	0 Degrees	60 Degrees	120 Degrees	
	3.5435	3.5435	3.5435	
	Tolerance is 3.5434-3.5440			
<ul><li>56.</li></ul>	Drive End Bearing Shaft Fit Co	ndition	(P) Pass	

57	. Opposite Drive End Bearing Sha	aft Fit		P57
	0 Degrees	60 Degrees	120 Degrees	
	3.5437	3.5437	3.5437	
-	Tolerance is 3.5434-3.5440			
• 58	. Opposite Drive End Bearing Sha	aft Fit Condition		(P) Pass
59	. Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
	Pass	Pass		
	rdss	Fd55		
Mech	anical Fits- Bearing Housings			Ō
Mech 60	anical Fits- Bearing Housings			P60
	anical Fits- Bearing Housings		120 Degrees	
	anical Fits- Bearing Housings . Drive End - Endbell Bearing Fit	3	120 Degrees 7.4814	
	aanical Fits- Bearing Housings Drive End - Endbell Bearing Fit O Degrees	60 Degrees		
60	<ul> <li>Drive End - Endbell Bearing Fit</li> <li>0 Degrees</li> <li>7.4814</li> </ul>	60 Degrees 7.4814		

	62.	Opposite Drive End - Endbell Bea	ring Fit		P62
	•=-	0 Degrees	60 Degrees	120 Degrees	
		7.4813	7.4813	7.4813	
		Tolerance is 7.4803-7.4814			
	63.	Opposite Drive End - Endbell Bea	ring Fit Condition	(P) Pass	
	64.	Bearing Cap Condition			
		Drive End Bearing Cap	Opposite Drive End Bearing Cap		
		Pass	Pass		
	65.	End Bell Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
		Pass	Pass		
	66.	List Machine Work Needed Below	1		
		None			
	67.	Technician		Brandon Woodard	
Ro		ause of Failure			
		Failure locations			
	68.	Drive end bearing			