

AC Inspection as Found Sage V Foods

5901 SLOAN DRIVE LITTLE ROCK, AR 72206

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FolderID: 101633 FormID: 17363892

AC Inspection - Rev. 2

Location:	MOTOR SHOP LR
Serial Number:	

Description:25 HP BROKEN SHAFT

Hi-Speed Job Number:	101633
Manufacturer:	Baldor
Serial Number:	C1810130237
HP/kW:	25 (HP)
RPM:	1775 (RPM)
Frame:	284T
Voltage:	230 / 460
Current:	62/31
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.00
J-box Included:	Half
Coupling/Sheave:	None
Date Received:	07/19/2023
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Shaft Machined Fit Repairs Required:	Yes
Heaters:	No
Bearing Type:	Rolling Element

Priorities Found: **5 - 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 *D.E. shaft broken off.*

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Init	ial N	lechanical/Electrical			0
	5.	Does Shaft Turn Freely?		(Yes) Yes	
	6.	Does Shaft Have Visible Damage	?	(Yes) Yes	P20
		Broken off.			
	7.	Assembled Shaft Runout		Inches	
	8.	Assembled Shaft End Play		inches	
	9.	Air Gap Variation <10%			
	10.	Lead Condition		(P) Pass	
	11.	Lead Length		9 Inches	
	12.	Lead Numbers		1-9	
	13.	Frame Condition		pass	
	14.	Fan Condition		(N) NA	
	15.	Broken or Missing Components		D.E. shaft	
Init	ial E	Electrical Inspection			O
	16.	Insulation Resistance/Megger			
	17.	Winding Resistance			
		1-2	1-3 2-3		

18.	Perform Surge Test	(P) Pass	P58
E fan itte f frigen	Kong		
	Heads I (m) [m] (m) [m] (m) [m] (m) [m] (m) [m] (m) [m]		
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Contract (22)			
	The Difference of the second second		
19.	Number of Stator Slots	48 Megohms	
20.	Stator Condition	pass	
21.	Stator Thermistors/Ohms	none	
22.	Stator Overloads/Ohms	none	
	Inical Inspection	la l	
23. 24.	Drive End Bearing Brand Drive End Bearing Number-	Nachi 6311 NSE	P2
24.	Drive End Bearing Number-	0311 N3E	12
25	Drive End Bearing Qty.	1	
25. 26.	Drive End Bearing Qty.	ו (Ball) Ball Bearing	P5
27.	Drive End Lubrication Type	(Grease) Grease Lubricated	

28.	Drive End Bearing Insulation or Grounding Device?	none	
29.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	none	
30.	Drive End Bearing Condition	replace	Ρ8
31.	Opposite Drive End Bearing Brand	koyo	P9
32.	Opposite Drive End Bearing Number-	6309 2RS	
33.	Opposite Drive End Bearing Qty.	1	
34.	Opposite Drive End Bearing Type	(Ball) Ball Bearing	P102
35.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
35. 36.	Opposite Drive End Lubrication Type Opposite Drive End Bearing Insulation or Grounding Device?	(Grease) Grease Lubricated	



38.	Opposite Drive End Bearing C	Condition	replace	
39.	Drive End Seal		in pro	P117
40.	Opposite Drive End Seal		none	
Rotor	Inspection			
41.	Rotor Type/Material		(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
42.	Growler Test		(Pass) Pass	
43.	Number of Rotor Bars		40	
44.	Rotor Condition		shaft replacement needed	
45.	List the Parts needed for the F New shaft, and new in pro seal.			
46.	, ,		Terrence Holland	
Mecha	nical Fits- Rotor			
47.	Shaft Runout		inches	
-	Shaft broken off			
48.	Rotor Runout			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	

	49.	Coupling Fit Closest to Bearing Ho			
		0 Degrees	90 Degrees	120 Degrees	
	50.	Coupling Fit Closest to the end of	the Shaft		
		0 Degrees	60 Degrees	120 Degrees	
	51.	Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
		0 _ 0 3.000	00 2 09.000		
		New shaft needed			
	,	Drive End Bearing Shaft Fit Condi	tion		
	53.	Opposite Drive End Bearing Shaft			
	55.			120 Degrees	
		0 Degrees	60 Degrees	120 Degrees	
	54.	Opposite Drive End Bearing Shaft	Fit Condition		
		New shaft needed			
	55.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
Me	echai	nical Fits- Bearing Housings			0
	56.	Drive End - Endbell Bearing Fit			
		0 Degrees	60 Degrees	120 Degrees	
		4.7246	4.7246	4.7247	
	57.	Drive End - Endbell Bearing Fit Co	ondition	(P) Pass	
	58.	Opposite Drive End - Endbell Bea	ring Fit		
		0 Degrees	60 Degrees	120 Degrees	
		3.9373	3.9373	3.9374	
	59.	Opposite Drive End - Endbell Bea		(P) Pass	
		Bearing Cap Condition			P51
	00.	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
			Opposite Drive Life Dearing Cap		
		pass			
	A STATE				
	Sec.	A PARTY AND A PARTY			
10	1				
	No. 5				
100					
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1.545		and the second second			
	1000000000				
and the second					
	61.	End Bell Air Seal Fits			
	61.	End Bell Air Seal Fits Drive End Air Seal	Opposite Drive End Air Seal		
	61.				

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Dynam	nic Balance Report		
64.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
65.	Initial Balance Readings		
	Drive End	Opposite Drive End	
66.	Final Balance Readings		
	Drive End	Opposite Drive End	
67.	Technician		
Rewin	d		
68.	Core Test Results - Watts loss pe	er Pound	
	Pre-Burnout	Post Burnout	
69.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
70.	Post Rewind Electrical Test- Insul	lation Resistance	
71.			
72.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
73.	Post Rewind Surge Test		
74.	Post Rewind Hi-Pot		
75.	Technician		
Root C	Cause of Failure		
76.			
77.	Root cause of failure		
	nical Fits- Rotor - Post Repair	r	
78.	Shaft Runout Post Repair		
79.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
80.	Coupling Fit Closest to Bearing H	- ·	
	0 Degrees	90 Degrees	120 Degrees
~ ~ ~			
81.	Coupling Fit Closest to the end of	·	
	0 Degrees	60 Degrees	120 Degrees

82.	Drive End Bearing Shaft Fit Post F	Repair		
	0 Degrees	60 Degrees	120 Degrees	
83.	Opposite Drive End Bearing Shaft	Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
84.	Shaft Air Seal Fits Post Repair			
	Drive End Air Seal	Opposite Drive End Air Seal		
85.	1 0			
	nical Fits- Bearing Housings -	-		
86.	Drive End - Endbell Bearing Fit Po	•		
	0 Degrees	60 Degrees	120 Degrees	
87.	Opposite Drive End - Endbell Bea			
	0 Degrees	60 Degrees	120 Degrees	
88.	Bearing Cap Condition Post Repa	ir		
00.	Drive End Bearing Cap	" Opposite Drive End Bearing Cap		
	Drive Life Dearling Cap	Opposite Drive Life Bearing Cap		
89.	End Bell Air Seal Fits Post Repair			
	Drive End Air Seal	Opposite Drive End Air Seal		
90.	End Bell Repair Sign-off			
Assem	ibly			
91.	QC Check All Parts for Cleanlines	s Prior to Assembly		
92.	Photograph All Major Components	s prior to assembly		
93.	Final Insulation Resistance Test			
94.	Assembled Shaft Endplay			
95.	Assembled Shaft Runout			
96.	Test Run Voltage			
	Volts	Volts	Volts	
97.				
97.	Toot Pup Amporage			
	Test Run Amperage	Amos	Amos	
	Test Run Amperage Amps	Amps	Amps	
98	Amps	·	Amps	
98.	Amps Drive End Vibration Readings - Inc	ches Per Second		
98.	Amps	·	Amps Axial	
98.	Amps Drive End Vibration Readings - Inc	ches Per Second Vertical		
	Amps Drive End Vibration Readings - Ind Horizontal	ches Per Second Vertical		
	Amps Drive End Vibration Readings - Ind Horizontal Opposite Drive End Vibration Rea	ches Per Second Vertical dings - Inches Per Second	Axial	
99.	Amps Drive End Vibration Readings - Ind Horizontal Opposite Drive End Vibration Rea	ches Per Second Vertical dings - Inches Per Second Vertical	Axial	
99.	Amps Drive End Vibration Readings - Ind Horizontal Opposite Drive End Vibration Read Horizontal	ches Per Second Vertical dings - Inches Per Second Vertical	Axial	

		os - Fahrenheit	
	5 Minutes	10 Minutes	15 Minutes
103.	Stator Temperatures- Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
104.	Document Final Condition with Pic	ctures after paint	
105.	Final Pics and QC Review		