



Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

AC Inspection as Found

ARKEMA, INC.
2571 Fite Road
Memphis, TN 38127

FolderID: 153635
FormID: 21553315



AC Inspection - Rev. 2

Completed by: JAMES VALENTINE on
09/09/2024

Location: Maintenance Shop

Serial Number: P36G0401B

Description: 60 HP Baldor Motor

Hi-Speed Job Number:	153635
Manufacturer:	Baldor
Spec/ID #:	P3680401B
Serial Number:	P3680401B
HP/kW:	60 (HP)
RPM:	3560 (RPM)
Frame:	364T3
Voltage:	230 / 460
Current:	40 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	9
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	09/04/2024
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Rewind:	No
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	Yes
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: ● 3 - High ● 50 - Good

Overall Condition



● 1. Report Date

09/09/2024

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4.	Describe the Overall Condition of the Equipment as Received		
	<i>Good</i>		
5.	Report Date [COPY]	09/09/2024	
Initial Mechanical/Electrical			
6.	Does Shaft Turn Freely?	(Y) Yes	
7.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No	
	<i>.001</i>		
8.	Does Shaft Have Visible Damage?	(No) No	
9.	Assembled Shaft Runout	0.001 Inches	
10.	Assembled Shaft End Play	0.003 inches	
11.	Air Gap Variation <10%		
12.	Lead Condition	(P) Pass	
13.	Lead Length	10 Inches	
14.	Does it have Lugs?, If so what is the Stud Size?	(No) No	
15.	Lead Numbers	9	
16.	Frame Condition	good	
17.	Fan Condition	(F) Fail	
	<i>Cracked</i> <i>I.D. 1.8802</i>		
18.	Broken or Missing Components	fan	P20



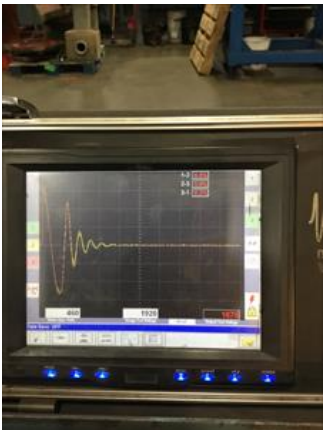
Initial Electrical Inspection



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1-2	1-3	2-3
.100880	.101150	.100920



22. Number of Stator Slots	48
23. Stator Condition	good
24. Stator Thermistors/Ohms	N/A
25. Stator Overloads/Ohms	N/A

Mechanical Inspection	
26. Drive End Bearing Brand	ntn

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27.	Drive End Bearing Number-	6313	
28.	Drive End Bearing Qty.	1	
29.	Drive End Bearing Type	(Ball) Ball Bearing	
30.	Drive End Lubrication Type	(Grease) Grease Lubricated	
31.	Drive End Bearing Insulation or Grounding Device?	none	
32.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	none	
33.	Drive End Bearing Condition	good	
34.	Opposite Drive End Bearing Brand	ntn	
35.	Opposite Drive End Bearing Number-	6313	
36.	Opposite Drive End Bearing Qty.	1	
37.	Opposite Drive End Bearing Type	(Ball) Ball Bearing	
38.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
39.	Opposite Drive End Bearing Insulation or Grounding Device?	none	
40.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer	P42



41.	Opposite Drive End Bearing Condition	good	
42.	Drive End Seal		
43.	Opposite Drive End Seal		

Rotor Inspection

44.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
45.	Growler Test	(Pass) Pass	
46.	Number of Rotor Bars	37	
47.	Rotor Condition	good	

48.	List the Parts needed for the Repair Below <i>2-6313 bearings</i>		
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49.	Signature of Technician that Disassembled Motor	James Valentine	
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Mechanical Fits- Rotor




50.	Shaft Runout		
51.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing

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52.	Coupling Fit Closest to Bearing Housing		
	0 Degrees	90 Degrees	120 Degrees
	1.879	1.879	1.879
53.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
	1.874	1.874	1.874
54.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	2.5595	2.5595	2.5595
	2.5603/2.5595		
55.	Drive End Bearing Shaft Fit Condition	(P) Pass	P57
			
56.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	2.5595	2.5595	2.5595
	2.5603/2.5595		
57.	Opposite Drive End Bearing Shaft Fit Condition	(P) Pass	P59
			
58.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	

Mechanical Fits- Bearing Housings

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59.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	5.5118	5.5118	5.5118
	5.5118/5.5128		
60.	Drive End - Endbell Bearing Fit Condition		(P) Pass
61.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	5.5145	5.5153	5.515
	5.5118/5.5128		
62.	Opposite Drive End - Endbell Bearing Fit Condition		(F) Fail
63.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	good	good	
64.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
65.	List Machine Work Needed Below <i>Drive end embellished needs meatalizing and cut.</i>		
66.	Technician		James Valentine
			
Root Cause of Failure			
67.	Failure locations <i>Recondition and machine work</i>		
68.	Root cause of failure <i>N/a</i>		