FolderID: 152514 FormID: 20012153



AC Inspection as Found KTG USA

400 Mahannah Memphis, TN 38107



AC Inspection - Rev. 2
Location: Default
Serial Number:

Description:125 HP AC

Hi-Speed Job Number:	152514
Manufacturer:	GE
HP/kW:	125 (HP)
RPM:	1190 (RPM)
Voltage:	460
Current:	139 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	3
J-box Included:	None
Coupling/Sheave:	None
Date Received:	04/04/2024
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Rewind:	No
Shaft Machined Fit Repairs Required:	Yes
Bearing Housing Machined Fit Repairs Required:	No

No

Random Wound

Rolling Element

Priorities Found: 4 - High

7 - Good

Overall Condition1. Report Date04/08/20242. Nameplate PictureP2

Heaters:

Winding Type:

Bearing Type:



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Describe the Overall Condition of the Equipment as Received
 Good condition. Drive end bearing spun on shaft and shaft requires repair. Passed all electrical tests. Drive end bearing was electric fluted. Recommend adding AEGIS ring and insulated bearing.

In	itial I	Mechanical/Electrical	io .
	5.	Does Shaft Turn Freely?	(Y) Yes
	6.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
	7.	Does Shaft Have Visible Damage?	(No) No
	8.	Assembled Shaft Runout	0.001 Inches
	9.	Assembled Shaft End Play	0.003 inches
	10.	Air Gap Variation <10%	No Provisions for measurement

P11 Lead Condition (P) Pass



12. Lead Length 20 Inches P13 (Yes) Yes

13. Does it have Lugs?, If so what is the Stud Size?



14. Lead Numbers None **Pass** 15. Frame Condition Fan Condition P16 (F) Fail 16.

Cracked and needs replaced



17. Broken or Missing Components None

Initial Electrical Inspection

0





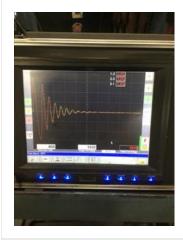
19. Winding Resistance P19

1-2 1-3 2-3

.06205 .0612 .06117



20. Perform Surge Test(P) PassP20



21. Number of Stator Slots 72

22. Stator Condition P22





23.	Stator Thermistors/Ohms	N/A
24	Stator Overloads/Ohms	N/A

Mechanical InspectionImage: Control of the control of th









26.	Drive End Bearing Number-	6318 ZZ C3
27.	Drive End Bearing Qty.	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?	None
31.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	None





33. Opposite Drive End Bearing Brand



P33







	6318 ZZ C3	4. Opposite Drive End Bearing Number-
	1	5. Opposite Drive End Bearing Qty.
	(Ball) Ball Bearing	6. Opposite Drive End Bearing Type
	(Grease) Grease Lubricated	7. Opposite Drive End Lubrication Type
	None	8. Opposite Drive End Bearing Insulation or Grounding Device?
	Snap Ring	9. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?
P40	Normal wear	Opposite Drive End Bearing Condition



41.	Drive End Seal	None	
42.	Opposite Drive End Seal	None	
Rotor I	nspection		O
43.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
44.	Growler Test	(Pass) Pass	
45.	Number of Rotor Bars	60	
46.	Rotor Condition		P46



Fan 6318 ZZ C3 6318 ZZ C3 insulated Aegis ring SGR-104.3-3FH



48. Signature of Technician that Disassembled Motor

Brandon Woodard



Mecha	nical Fits- Rotor			О
49.	Shaft Runout		0.001 inche	
50.	Rotor Runout			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
	0.002	0.002	0.002	
51.	0.002 Coupling Fit Closest to Bearing H	****	0.002	P51
51.		****	0.002 120 Degrees	P51



52.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
	3.3732	3.3732	3.3732



3.5428 3.5429 3.5425

Tolerance is 3.5434-3.5440
Bearing pulled of shaft. Requires repair.



54. Drive End Bearing Shaft Fit Condition
(F) Fail

55. Opposite Drive End Bearing Shaft Fit P55

0 Degrees 60 Degrees 120 Degrees 3.5435 3.5435 3.5435

Tolerance is 3.5434-3.5440



56	6. Oppo	site Drive End Bearing	Shaft Fit Condition (I	P)	Pa	ass	5
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57. Shaft Air Seal Fits

Drive End Air Seal Opposite Drive End Air Seal

Pass Pass

Mechanical Fits- Bearing Housings



P53

58. Drive End - Endbell Bearing Fit

0 Degrees 60 Degrees 120 Degrees

7.4812 7.4812 7.4812

P58



Drive End - Endbell Bearing Fit Condition
 Opposite Drive End - Endbell Bearing Fit
 O Degrees
 7.4815
 O Degrees
 7.4815
 O Degrees
 <l



61. Opposite Drive End - Endbell Bearing Fit Condition (P) Pass 62. Bearing Cap Condition Drive End Bearing Cap Opposite Drive End Bearing Cap **Pass Pass** 63. End Bell Air Seal Fits Drive End Air Seal Opposite Drive End Air Seal **Pass Pass** 64. List Machine Work Needed Below Repair drive end shaft bearing fit. Normal turn and metalizing. 65. Technician **Brandon Woodard**

Root Cause of Failure

66.	Failure locations
	Drive end bearing
67.	Root cause of failure
	Spun on shaft.