



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

AC Inspection as Found

Process And Power

1721 Corporate Ave
Memphis Tn, TN 38132

FolderID: 153623
FormID: 21536160



AC Inspection - Rev. 2

Completed by: JAMES VALENTINE on
09/06/2024

Location: Shop

Serial Number:

Hi-Speed Job Number:	15362
Manufacturer:	TECO Westinghouse
Serial Number:	RBE7164510003
HP/kW:	60 (HP)
RPM:	1775 (RPM)
Frame:	364TP
Voltage:	460
Current:	68 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	12
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	09/05/2024
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Rewind:	No
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 1 - Low 43 - Good

Overall Condition



1. Report Date

09/06/2024

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2. Nameplate Picture

P2



3. Photos of all six sides of the machine.

P3





4. Describe the Overall Condition of the Equipment as Received

Good

5. Report Date [COPY]

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
8.	Does Shaft Have Visible Damage?	(No) No
9.	Assembled Shaft Runout	0.001 Inches
10.	Assembled Shaft End Play	0.0045 inches
11.	Air Gap Variation <10%	
12.	Lead Condition	(P) Pass
13.	Lead Length	14 Inches
14.	Does it have Lugs?, If so what is the Stud Size?	
15.	Lead Numbers	1-12
16.	Frame Condition	good
17.	Fan Condition	(P) Pass



Contents of box that was shipped with motor.



Different angle

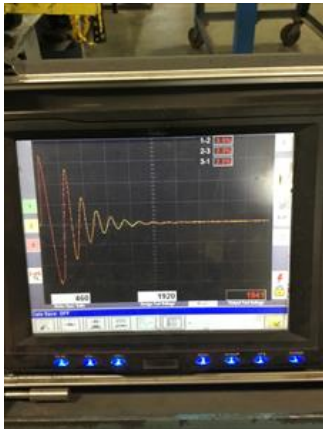
Initial Electrical Inspection



Megg



Hi pot



22. Number of Stator Slots

24. Stator Thermistors/Ohms

25. Stator Overloads/Ohms

Mechanical Inspection



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40.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	none	
41.	Opposite Drive End Bearing Condition	good	P45



42.	Drive End Seal		P46
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43.	Opposite Drive End Seal	labyrinth	
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Rotor Inspection

44.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
45.	Growler Test	(Pass) Pass	
46.	Number of Rotor Bars	40	
47.	Rotor Condition	good	

48. List the Parts needed for the Repair Below

1-6313 bearing
1-7318 bearing
1-T04-55-90-10 seal

49.	Signature of Technician that Disassembled Motor	James Valentine	
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Mechanical Fits- Rotor





51. Rotor Runout

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

52. Coupling Fit Closest to Bearing Housing

0 Degrees

90 Degrees

120 Degrees

N/a

53. Coupling Fit Closest to the end of the Shaft

0 Degrees

60 Degrees

120 Degrees

N/a

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

56. Opposite Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

3.544

3.544

3.544

3.5451/3.5442

57. Opposite Drive End Bearing Shaft Fit Condition

(P) Pass

58. Shaft Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

Mechanical Fits- Bearing Housings

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

7.481


7.481

7.481

62. Opposite Drive End - Endbell Bearing Fit Condition

(P) Pass

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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>None</i>	
66.	Technician	James Valentine
		
Root Cause of Failure		
67.	Failure locations <i>Recondition</i>	
68.	Root cause of failure <i>N/a</i>	