



AC Inspection as Found

MARS FOOD (0001269)

1098 N. Broadway
 Greenville, MS 38701

FolderID: 155285
 FormID: 24097609



AC Inspection - Rev. 2

Location: Motor Shop

Serial Number:

Description: 11KW AC

Hi-Speed Job Number:	155285
Manufacturer:	US Motors/Nidec
HP/kW:	11 (kW)
RPM:	1776 (RPM)
Voltage:	480
Current:	17 (Amps)
Phase:	Three
Hz:	60 (Hz)
Enclosure:	TEFC
# of Leads:	6
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	04/08/2026
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 ● 10 - Good

Overall Condition



- | | |
|----------------------|-------------------|
| 1. Report Date | 04/14/2025 |
| 2. Nameplate Picture | P2 |



- | | |
|--|----|
| 3. Photos of all six sides of the machine. | P3 |
|--|----|

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4. Describe the Overall Condition of the Equipment as Received

Stator passed all electrical tests. Drive end bearing failed. Needs bore and bushing installed in opposite drive end and damaged end of shaft filed.

5. Is this a UL Listed Motor (No) No

6. Is the motor water cooled or can be pressure checked before teardown (No) No

Initial Mechanical/Electrical



7. Does Shaft Turn Freely? (N) No

8. Does the shaft require T.I.R in Lathe to identify additional repairs? (No) No

9. Does Shaft Have Visible Damage? (Yes) Yes

P9



10. Assembled Shaft Runout Inches

11. Assembled Shaft End Play inches

12. Air Gap Variation <10% No Provisions for measurement



14. Lead Length	6 Inches
15. Does it have Lugs?, If so what is the Stud Size?	(Yes) Yes
#10	
16. Lead Numbers	UVW 1-2
17. Are the Leads insulated with Chico or other material	(No) No
18. Frame Condition	Pass
19. Fan Condition	(N) NA
20. Does motor have internal fan?	(No) No
21. Broken or Missing Components	Yes

P21



Missing fan and fan shroud.

Initial Electrical Inspection



23. Winding Resistance

1-2

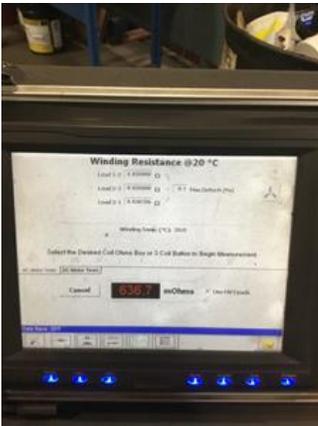
.6359

1-3

.6358

2-3

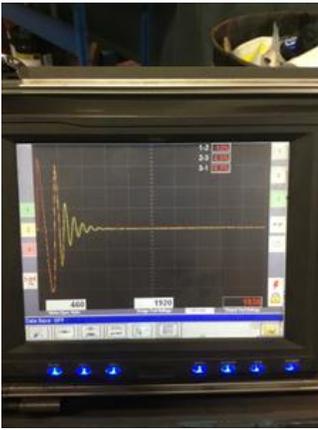
.6367



24. Perform Surge Test

(P) Pass

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25. Number of Stator Slots

48

26. Stator Condition

Pass

P26

Stator had moisture present. Stator was dried out and retested.



27. Stator Thermistors/Ohms

230

P27



28. Stator Overloads/Ohms

N/A

Mechanical Inspection



29. Drive End Bearing Brand

UNK

30. Drive End Bearing Number-

6309 2RS C3

31. Drive End Bearing Qty.

1

32. Drive End Bearing Type

(Ball) Ball Bearing

33. Drive End Lubrication Type

(Grease) Grease Lubricated

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34. Drive End Bearing Insulation or Grounding Device?	None	
35. Drive End Wavy Washer/Snap-Ring Other Retention Device?	Snap Ring and seal sleeve	P35
		

36. Drive End Bearing Condition	Destroyed	P36
		

37. Opposite Drive End Bearing Brand	HCH	P37
		

38. Opposite Drive End Bearing Number-	6210 2RS C3	
39. Opposite Drive End Bearing Qty.	1	
40. Opposite Drive End Bearing Type	(Ball) Ball Bearing	
41. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
42. Opposite Drive End Bearing Insulation or Grounding Device?	None	
43. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	Wavy Washer	
44. Opposite Drive End Bearing Condition	Normal wear	P44

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45. Drive End Seal

50 62 7

P45



46. Opposite Drive End Seal

VA50

P46



Rotor Inspection



47. Rotor Type/Material

(Squirrel Aluminum) Squirrel
Cage Aluminum Die Cast

48. Growler Test

(Pass) Pass

49. Number of Rotor Bars

40



51. List the Parts needed for the Repair Below

- 50 62 7
- VA 50
- 6210 2rs C3
- 6309 3rs C3

52. Signature of Technician that Disassembled Motor

Brandon Woodard

Mechanical Fits- Rotor



53. Shaft Runout 0.002 inches

54. Rotor Runout

Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
0.001	0.001	0.001

55. Coupling Fit Closest to Bearing Housing

P55

0 Degrees	90 Degrees	120 Degrees
1.378	1.378	1.378



56. Coupling Fit Closest to the end of the Shaft

0 Degrees	60 Degrees	120 Degrees
1.378	1.378	1.378

57. Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
1.7719	1.7719	1.7719

1.7718-1.7722



58. Drive End Bearing Shaft Fit Condition

(P) Pass

59. Opposite Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
1.969	1.969	1.969

1.9686-1.9690



60. Opposite Drive End Bearing Shaft Fit Condition

(P) Pass

61. Shaft Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal
Pass	Pass

Mechanical Fits- Bearing Housings



62. Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees
3.9381	3.9381	3.9381

Tolerance is 3.9370-3.9379. .0002 over tolerance recommend no machine work



63. Drive End - Endbell Bearing Fit Condition (P) Pass

64. Opposite Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees
3.5455	3.5452	3.5452

Tolerance is 3.5433-3.5442



65. Opposite Drive End - Endbell Bearing Fit Condition (F) Fail

66. Bearing Cap Condition

Drive End Bearing Cap	Opposite Drive End Bearing Cap
Pass	N/A

67. End Bell Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal
Pass	Pass

68. List Machine Work Needed Below

*Bore and bush opposite driveend.
Repair end of shaft.*

69. Technician Brandon Woodard



Root Cause of Failure

70. Failure locations

Drive end bearing.

71. Root cause of failure

No grease.