



AC Inspection as Found

MARS FOOD (0001269)

1098 N. Broadway
Greenville, MS 38701

FolderID: 153906
FormID: 21966130



AC Inspection - Rev. 2

Completed by: JAMES VALENTINE on
10/17/2024

Location: 5 Floor

Serial Number:

Hi-Speed Job Number: 153906

Manufacturer: Other

Product Number: NRD132M2

Serial Number: EN60034-1

HP/kW: 20 (HP)

RPM: 6250 (RPM)

Frame: IP54

Voltage: 460

Current: 32 (Amps)

Phase: Three

Hz: 105 (Hz)

Service Factor: 1.15

Enclosure: TEFC

of Leads: 3

J-box Included: Complete

Coupling/Sheave: None

Date Received: 10/16/2024

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: ● 8 - High

● 46 - Good

Overall Condition



1. Report Date

10/16/2024

2. Nameplate Picture

P2



3. Photos of all six sides of the machine.

P3







4. Describe the Overall Condition of the Equipment as Received

5. Report Date [COPY]

Initial Mechanical/Electrical



- | | | |
|----------------------------------|--|-----------|
| <input checked="" type="radio"/> | 6. Does Shaft Turn Freely? | (Y) Yes |
| <input checked="" type="radio"/> | 7. Does the shaft require T.I.R in Lathe to identify additional repairs? | (No) No |
| <input checked="" type="radio"/> | 8. Does Shaft Have Visible Damage? | (Yes) Yes |

P8



Damage is on drive end. 180 degrees out.

- | | | |
|----------------------------------|------------------------------|--------------|
| <input checked="" type="radio"/> | 9. Assembled Shaft Runout | 0.003 Inches |
| <input checked="" type="radio"/> | 10. Assembled Shaft End Play | 0.005 inches |
| | 11. Air Gap Variation <10% | |

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<div><div></div></div>	13. Lead Length	10 Inches	
	14. Does it have Lugs?, If so what is the Stud Size?		
<div><div></div></div>	15. Lead Numbers	1-3	
<div><div></div></div>	16. Frame Condition	good	
<div><div></div></div>	17. Fan Condition	(F) Fail	P17



18. Broken or Missing Components	fan	P18
<div><div></div><div>Fan shaft dimensions.7487</div></div>		

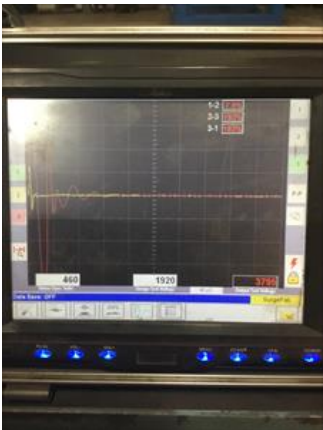




1-2

1-3

2-3



24. Stator Thermistors/Ohms

25. Stator Overloads/Ohms

Mechanical Inspection

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27.	Drive End Bearing Number-	6308ze	
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	P33



34.	Opposite Drive End Bearing Brand	nachi	
35.	Opposite Drive End Bearing Number-	6308ze	
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?	none	
41.	Opposite Drive End Bearing Condition	good	P41




42.	Drive End Seal	none	
43.	Opposite Drive End Seal	none	

Rotor Inspection

44.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
45.	Growler Test	(Pass) Pass	
46.	Number of Rotor Bars	36	
47.	Rotor Condition	good	

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48.	List the Parts needed for the Repair Below 2-3608 bearings 1-rewind 1-fan		
49.	Signature of Technician that Disassembled Motor		James Valentine
			
Mechanical Fits- Rotor			
50.	Shaft Runout		inches
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
	1.0235	1.0235	1.0235
53.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
	1.0233	1.0233	1.0233
54.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	1.5756	1.5756	1.5756
	1.5756/1.5752		
55.	Drive End Bearing Shaft Fit Condition		(P) Pass
56.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	1.5756	1.5756	1.5756
	1.5756/1.5752		
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
	3.544	3.544	3.544
	3.5433/3.5442		
60.	Drive End - Endbell Bearing Fit Condition		(P) Pass
61.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	3.5442	3.5442	3.5442
	3.5433/3.5442		
62.	Opposite Drive End - Endbell Bearing Fit Condition		(P) Pass
63.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	good	good	

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64.	End Bell Air Seal Fits	
	Drive End Air Seal	Opposite Drive End Air Seal
65.	List Machine Work Needed Below	
	None	
66.	Technician	James Valentine
		
Root Cause of Failure		
67.	Failure locations	
	Winding failure	
68.	Root cause of failure	
	N/a	