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

AC Inspection as Found

MARS FOOD (0001269)
1098 N. Broadway
Greenville, MS 38701

FolderID: 152279
FormID: 19824890

AC Inspection - Rev. 2

Completed by: JAMES VALENTINE on 03/21/2024

Location: 5 Floor

Serial Number:

Hi-Speed Job Number:	152279
Manufacturer:	Other
HP/kW:	10 (HP)
Voltage:	460
Current:	10 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	3
J-box Included:	Half
Coupling/Sheave:	None
Date Received:	03/21/2024
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Rewind:	No
Shaft Machined Fit Repairs Required:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: **2 - High** **47 - Good**

Overall Condition

1.	Report Date	**03/21/2024**
2.	Nameplate Picture	**none**

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

4. Describe the Overall Condition of the Equipment as Received P4

Initial Mechanical/Electrical

5.	Does Shaft Turn Freely?	**(N) No**	
6.	Does the shaft require T.I.R in Lathe to identify additional repairs?	**(Yes) Yes**	
7.	Does Shaft Have Visible Damage?	**(No) No**	
8.	Assembled Shaft Runout	**Inches**	
9.	Assembled Shaft End Play		
10.	Air Gap Variation <10%		
11.	Lead Condition	**(P) Pass**	
12.	Lead Length	**8 Inches**	
13.	Does it have Lugs?, If so what is the Stud Size?		
14.	Lead Numbers	**1-3**	
15.	Frame Condition	**good**	
16.	Fan Condition	**(P) Pass**	
17.	Heater Quantity, Ratings		

Quantity	Volts/Watts	Pass/Fail

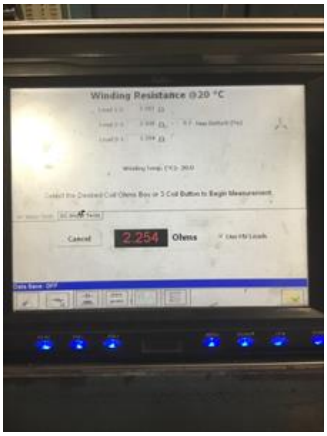
18.	Broken or Missing Components	**3 broken bolts and 2 still I housing.**	

Initial Electrical Inspection

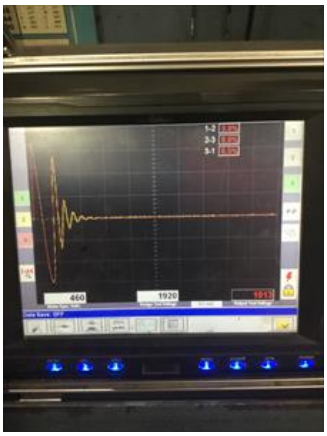
19.	Insulation Resistance/Megger	**92000 Megohms**	P22

20.	Winding Resistance			P23

1-2	1-3	2-3
2.257	**2.258**	**2.54**



21.	Perform Surge Test	**(P) Pass**	P24



22.	Number of Stator Slots	**24**	
23.	Stator Condition	**good**	
24.	Stator Thermistors/Ohms		
25.	Stator Overloads/Ohms		

Mechanical Inspection

26.	Drive End Bearing Brand	**skf**	
27.	Drive End Bearing Number-	**6206**	
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	**bad**	P36

34.	Opposite Drive End Bearing Brand	**Skf**	
35.	Opposite Drive End Bearing Number-	**6205**	
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?	**no**	
40.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	**wavy washer**	P43

41.	Opposite Drive End Bearing Condition	**good**	P44

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	**20**
47.	Rotor Condition	**good**
48.	List the Parts needed for the Repair Below	

1-6205 bearing
1-6206 bearing

49.	Signature of Technician that Disassembled Motor	**James Valentine**

Mechanical Fits- Rotor

50. Shaft Runout

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

Na

53. Coupling Fit Closest to the end of the Shaft

0 Degrees	60 Degrees	120 Degrees

Na

54. Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
1.1815	**1.1818**	**1.181**

1.1815/1.1812

55.	Drive End Bearing Shaft Fit Condition	**(P) Pass**

56. Opposite Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
0.984	**0.9839**	**0.9837**

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
2.4415	**2.4415**	**2.4416**

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

61. Opposite Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees
2.0482	**2.0485**	**2.4587**

62. Opposite Drive End - Endbell Bearing Fit Condition **(P) Pass** P73

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 P76

Bolts broke in housing

66. Technician **James Valentine**

Root Cause of Failure

67. Failure locations

D/e bearing

68. Root cause of failure

N/a