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

AC Recondition As Found

Kimberly Clark (10176-KCM)
500 Murphy Dr.
Maumelle, AR 72113

FolderID: 100154
FormID: 14283833

AC Recondition - Rev. 2

Location:	Shop
Serial Number:	C1012021043
Description:	40HP BALDOR 1800RPM 324T

Hi-Speed Job Number:	100154
Manufacturer:	Baldor
Product Number:	ECP4110T-4
Spec/ID #:	12E916X286G1
Serial Number:	C1012021043
HP/kW:	40 (HP)
RPM:	1775 (RPM)
Frame:	324T
Voltage:	460
Current:	46
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
J-box Included:	Complete
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: **2 - High** **7 - Good**

Overall Condition

1. Report Date

2. Nameplate Picture P21

3. Photos of all six sides of the machine. P27

4. Describe the Overall Condition of the Equipment as Received

   Functional but dirty

5. Distance from the end of the shaft to the Coupling/Sheave

Initial Mechanical/Electrical

6. Does Shaft Turn Freely? **(Yes) Yes**

	7.	Does Shaft Have Visible Damage?	**(No) No**	P12

	8.	Assembled Shaft Runout	**0.002 Inches**	
	9.	Assembled Shaft End Play		
	10.	Air Gap Variation <10%		
	11.	Lead Condition	**(P) Pass**	
	12.	Lead Length	**15 Inches**	
	13.	Frame Condition	**good**	
	14.	Fan Condition	**(P) Pass**	P54

	15.	Broken or Missing Components		

Initial Electrical Inspection

	16.	Insulation Resistance/Megger		
	17.	Winding Resistance		

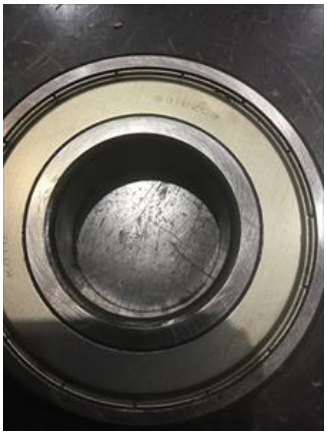
1-2	1-3	2-3

18.	Perform Surge Test	**(F) Fail**	P35

19.	Stator Condition		P39

Mechanical Inspection

20.	Drive End Bearing Number-	**6312**	P8



21.	Drive End Bearing Qty.	**1**

22.	Drive End Bearing Type	**(Ball) Ball Bearing**	P20

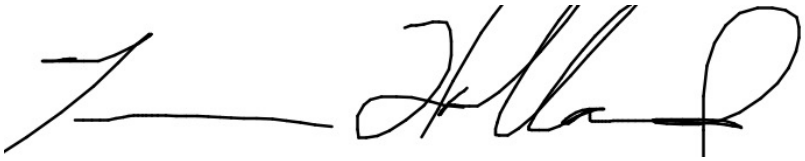
23.	Drive End Lubrication Type		
24.	Drive End Bearing Insulation or Grounding Device?	**none**	
25.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	**none**	
26.	Drive End Bearing Condition	**grease dirty and contaminated**	
27.	Opposite Drive End Bearing Number-	**6312**	
28.	Opposite Drive End Bearing Qty.		
29.	Opposite Drive End Bearing Type	**(Ball) Ball Bearing**	P51

30.	Opposite Drive End Lubrication Type	**(Grease) Grease Lubricated**	
31.	Opposite Drive End Bearing Insulation or Grounding Device?	**none**	
32.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	**yes**	P56

33.	Opposite Drive End Bearing Condition	**grease dirty and contaminated**
34.	Drive End Seal	
35.	Opposite Drive End Seal	

Rotor Inspection

36.	Rotor Type/Material	**(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast**
37.	Growler Test	
38.	Number of Rotor Bars	
39.	Rotor Condition	
40.	List the Parts needed for the Repair Below	
41.	Signature of Technician that Disassembled Motor	**Terrence. Holland**



Mechanical Fits- Rotor

42.	Shaft Runout	**0.002 inches**
43.	Rotor Runout	

Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing

44.	Coupling Fit Closest to Bearing Housing	

0 Degrees	90 Degrees	120 Degrees

45.	Coupling Fit Closest to the end of the Shaft	

0 Degrees	60 Degrees	120 Degrees

46.	Drive End Bearing Shaft Fit	

0 Degrees	60 Degrees	120 Degrees
2.3623	**2.3623**	**2.3623**

47.	Drive End Bearing Shaft Fit Condition	**(P) Pass**
48.	Opposite Drive End Bearing Shaft Fit	

0 Degrees	60 Degrees	120 Degrees
2.3623	**2.3624**	**2.3624**

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

50. Shaft Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal

Mechanical Fits- Bearing Housings

51. Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees
5.1184	**5.1185**	**5.1185**

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

53. Opposite Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees
5.1189	**5.1188**	**5.119**

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

55. Bearing Cap Condition

Drive End Bearing Cap	Opposite Drive End Bearing Cap
good	**good**

56. End Bell Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal

57. List Machine Work Needed Below

None

58. Technician **Terrence. Holland**

Root Cause of Failure

59. Failure locations P6

Windings

60. Root cause of failure