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

AC Recondition As Found

Peco Foods
625 S. Allen Street
Batesville, AR 72501

FolderID: 100782
FormID: 15704198

AC Recondition - Rev. 2

Location:	Shop
Serial Number:	F1807101170

Description:5HP BALDOR 1800RPM 184JM MEMPHIS PUMP MPAL-300-500TEBF 184647

Hi-Speed Job Number:	100782
Manufacturer:	Baldor
Product Number:	EJMM3615T
Spec/ID #:	36H017S268G1
Serial Number:	F1807101170
HP/kW:	5 (HP)
RPM:	1750 (RPM)
Frame:	184JM
Voltage:	230 / 460
Current:	13.4/6.7
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	Propeller
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

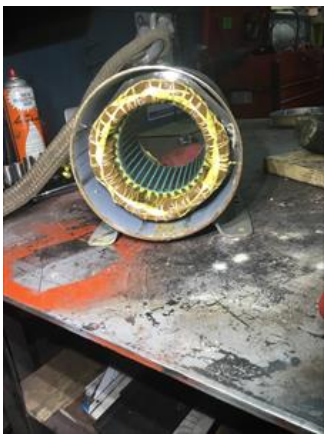
Priorities Found: **1 - High** **7 - Good**

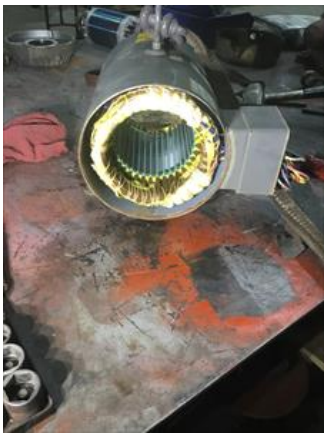
Overall Condition

1. Report Date

2. Nameplate Picture P20

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





	4.	Describe the Overall Condition of the Equipment as Received ***Serviceable but rusted***	
	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**
🔴	8.	Assembled Shaft Runout	**0.001 Inches**
	9.	Assembled Shaft End Play	**inches**
	10.	Air Gap Variation <10%	
🟢	11.	Lead Condition	**(P) Pass**
	12.	Lead Length	**7 Inches**
	13.	Frame Condition	**pass**
🟢	14.	Fan Condition	**(P) Pass** P55

	15.	Broken or Missing Components	
Initial Electrical Inspection			

16.	Insulation Resistance/Megger	**16000 Megohms**	P5

17.	Winding Resistance		

1-2	1-3	2-3

18.	Perform Surge Test		P35

19.	Number of Stator Slots		
20.	Stator Condition	**pass**	

Mechanical Inspection

21.	Drive End Bearing Number-	**6207 2Z/C3**	P8

22.	Drive End Bearing Qty.	**1**
23.	Drive End Bearing Type	**(Ball) Ball Bearing**

24.	Drive End Lubrication Type	**(Grease) Grease Lubricated**	
25.	Drive End Bearing Insulation or Grounding Device?	**none**	
26.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	**spacer goes on after bearing**	P39

27.	Drive End Bearing Condition	**replace**	
28.	Opposite Drive End Bearing Number-	**6205 ZE C3**	P48

29.	Opposite Drive End Bearing Qty.	**1**	
30.	Opposite Drive End Bearing Type	**(Ball) Ball Bearing**	
31.	Opposite Drive End Lubrication Type	**(Grease) Grease Lubricated**	
32.	Opposite Drive End Bearing Insulation or Grounding Device?	**none**	
33.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	**yes**	P57

34.	Opposite Drive End Bearing Condition	**Worn**

35. Drive End Seal P60

36. Opposite Drive End Seal

Rotor Inspection

37.	Rotor Type/Material	**(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast**
38.	Growler Test	**(Pass) Pass**
39.	Number of Rotor Bars	
40.	Rotor Condition	**pass**

41. List the Parts needed for the Repair Below P29

Replace Seal, 6207 & 6205 bearings. Need new seal sleeve machined.

42. Signature of Technician that Disassembled Motor **Terrence Holland**

Mechanical Fits- Rotor

43.	Shaft Runout	**0.001 inches**
44.	Rotor Runout	

Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing

45.	Coupling Fit Closest to Bearing Housing			
	0 Degrees	90 Degrees	120 Degrees	
46.	Coupling Fit Closest to the end of the Shaft			
	0 Degrees	60 Degrees	120 Degrees	
47.	Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	1.3782	**1.3781**	**1.3782**	
48.	Drive End Bearing Shaft Fit Condition			**(P) Pass**
49.	Opposite Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	0.9847	**0.9848**	**0.9846**	
50.	Opposite Drive End Bearing Shaft Fit Condition			**(P) Pass**
51.	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		

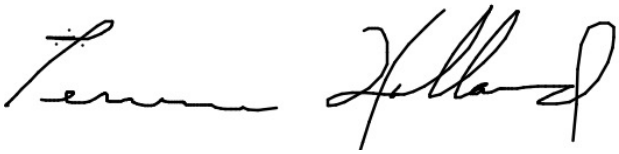
Mechanical Fits- Bearing Housings

52.	Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	2.835	**2.8352**	**2.8352**	
53.	Drive End - Endbell Bearing Fit Condition			**(P) Pass**
54.	Opposite Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	2.048	**2.048**	**2.0479**	
55.	Opposite Drive End - Endbell Bearing Fit Condition			**(P) Pass**
56.	Bearing Cap Condition			P30
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	pass	**n/a**		

57.	End Bell Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		

58. List Machine Work Needed Below P37

59. Technician **Terrence Holland**



Root Cause of Failure

60. Failure locations P6

D.E. Seal sleeve worn. Shaft key way wallowed.

61. Root cause of failure

Pump seal failure due to worn seal sleeve.