



KEEPING YOUR FACILITY UP TO SPEED
— EVERY DAY SINCE 1946 —

LR Motor Shop Repairs

Job Number 100322

Prepared for Delta Plastics (11016)

8801 Frazier Pike
Little Rock AR 72206

Table of Contents



Hi-Speed Industrial Service
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Millington, Tn 38053
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AC Recondition As Found

Delta Plastics (11016)

8801 Frazier Pike
Little Rock, AR 72206

FolderID: 100322
FormID: 14613401

AC Recondition - Rev. 2

Location: MOTOR SHOP LR
Serial Number: 1PC3027-1CB60-0AA1
Description: 12.6KW SIEMENS 1800RPM 132M

Hi-Speed Job Number:	100322
Manufacturer:	Siemens
Product Number:	1PC3027-1CB60-0AA1
HP/kW:	12.6 (kW)
RPM:	1765 (RPM)
Frame:	132M
Voltage:	230 / 460
Current:	67/35
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: ● 6 - High ● 2 - Good

Overall Condition

1. Report Date
2. Nameplate Picture



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3. Photos of all six sides of the machine.
4. Describe the Overall Condition of the Equipment as Received

Initial Mechanical/Electrical

<input checked="" type="radio"/>	5. Does Shaft Turn Freely?	(No) No
	6. Does Shaft Have Visible Damage?	
	7. Assembled Shaft Runout	
	8. Assembled Shaft End Play	
	9. Air Gap Variation <10%	

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10. Lead Condition

(F) Fail



11. Lead Length

8 Inches

12. Frame Condition

13. Fan Condition

(P) Pass



14. Broken or Missing Components

Initial Electrical Inspection

15. Insulation Resistance/Megger

0 Megohms

16. Winding Resistance

1-2

1-3

2-3

0

0

0

17. Perform Surge Test

(F) Fail



18. Stator Condition

rewind insulation very brittle

Motor full of water



Mechanical Inspection

19. Drive End Bearing Number-

6311 ZZ



20. Drive End Bearing Qty.

1

21. Drive End Bearing Type

(Ball) Ball Bearing

22. Drive End Lubrication Type

(Grease) Grease Lubricated

23. Drive End Bearing Insulation or Grounding Device?

no

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24. Drive End Wavy Washer/Snap-Ring Other Retention Device?	no
25. Drive End Bearing Condition	



Moisture corrosion

26. Opposite Drive End Bearing Number-	6308ZZ
----------------------------------------	---------------



27. Opposite Drive End Bearing Qty.	1
28. Opposite Drive End Bearing Type	(Ball) Ball Bearing
29. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
30. Opposite Drive End Bearing Insulation or Grounding Device?	no
31. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer
32. Opposite Drive End Bearing Condition	moisture corrosion

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Moisture corrosion

33. Drive End Seal	na
34. Opposite Drive End Seal	na
Rotor Inspection	
35. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast



36. Growler Test	(Pass) Pass
37. Number of Rotor Bars	28
38. Rotor Condition	wash and bake



39. List the Parts needed for the Repair Below

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40. Signature of Technician that Disassembled Motor

RW

RW

Mechanical Fits- Rotor

41. Shaft Runout

42. Rotor Runout

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

43. Coupling Fit Closest to Bearing Housing

0 Degrees

90 Degrees

120 Degrees

2.9687

2.9689

2.9688

44. Coupling Fit Closest to the end of the Shaft

0 Degrees

60 Degrees

120 Degrees

2.9687

2.9688

2.9687



45. Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

2.1656

2.1656

2.1657





46. Drive End Bearing Shaft Fit Condition

(P) Pass

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47. Opposite Drive End Bearing Shaft Fit			
0 Degrees	60 Degrees	120 Degrees	
1.5747	1.5746	1.5746	
48. Opposite Drive End Bearing Shaft Fit Condition			(F) Fail



49.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
Mechanical Fits- Bearing Housings			
50.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	4.7257	4.725	4.725
	51.	Drive End - Endbell Bearing Fit Condition	
	Resleeve		(F) Fail



52. Opposite Drive End - Endbell Bearing Fit

0 Degrees

3.5448

60 Degrees

3.5445

120 Degrees

3.5445



53. Opposite Drive End - Endbell Bearing Fit Condition

(F) Fail

Resleeve

54. Bearing Cap Condition

Drive End Bearing Cap

pass

Opposite Drive End Bearing Cap

na

55. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

56. List Machine Work Needed Below

Ode shaft bearing fit bad.De and Ode end bell housing fits bad .needs new connection block



57. Technician

RW

Root Cause of Failure

58. Failure locations

59. Root cause of failure

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