



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

LR Motor Shop Repairs

**Job Number 103886**

Prepared for Delta Plastics (11016)

8801 Frazier Pike  
Little Rock AR 72206

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AC Inspection as Found - *MOTOR SHOP LR*

AC Inspection - Rev. 2

**1.0**

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

## AC Inspection as Found

**Delta Plastics (11016)**

8801 Frazier Pike  
Little Rock, AR 72206

FolderID: 103886  
FormID: 22787504

### AC Inspection - Rev. 2

Location: MOTOR SHOP LR

Serial Number:

Description: 400 HP

Hi-Speed Job Number:	103886
Manufacturer:	WEG
Product Number:	400125T3C449T-W22
Spec/ID #:	UL LISTED:26FEV21
HP/kW:	400 (HP)
RPM:	1190 (RPM)
Frame:	L447/9T
Voltage:	460
Current:	477 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.00
Enclosure:	TEFC
# of Leads:	12
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
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: 1 - Low 14 - Good

### Overall Condition

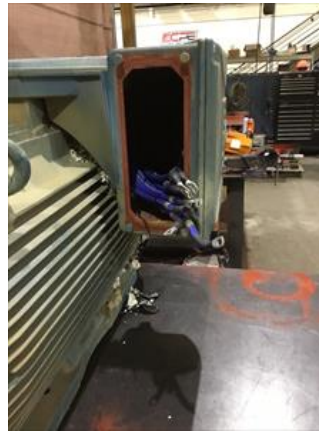
1. Report Date

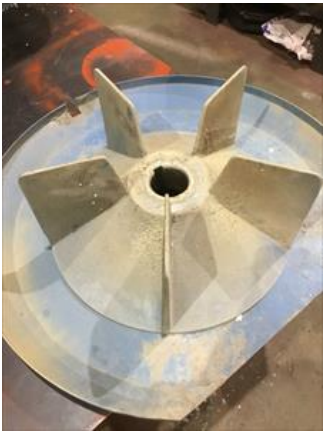
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## 2. Nameplate Picture



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





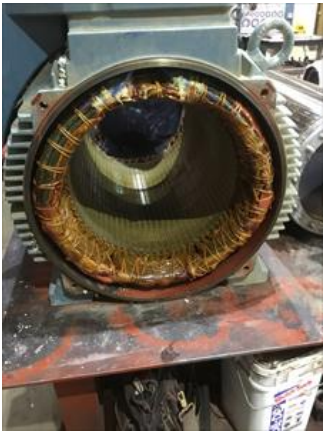
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4. Describe the Overall Condition of the Equipment as Received		
Dirty		
Initial Mechanical/Electrical		
5.	Does Shaft Turn Freely?	(Y) Yes
6.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
7.	Does Shaft Have Visible Damage?	(No) No
8.	Assembled Shaft Runout	Inches
	0.001	
9.	Assembled Shaft End Play	inches

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10. Air Gap Variation <10%	
11. Lead Condition	(P) Pass
12. Lead Length	18 Inches
13. Does it have Lugs?, If so what is the Stud Size?	
Yes	
14. Lead Numbers	T1-T12
15. Frame Condition	pass
16. Fan Condition	(P) Pass
17. Broken or Missing Components	
J-box side cover	
<b>Initial Electrical Inspection</b>	
18. Insulation Resistance/Megger	Megohms

Coil 2 (Ohms)	0.01461 Corr: ...	
Coil 3 (Ohms)	0.01463 Corr: ...	
Megohm Stat.	PASS	No Test
Volts (V)	498	
I(μA)	0.0637	
Resist	7819	
At 40°C	2111	
DI Status	N/A Test	N/A Test
Nameplate	Application	Results Summary

19. Winding Resistance		
1-2	1-3	2-3

Test Time	3:24:02 PM	3:13:10 PM
IR Temp Com...	Thermoplastic	None
Resist Status	PASS	No Test
Bal L1 (Ohms)		
Bal L2 (Ohms)		
Bal L3 (Ohms)		
L1-L2 (Ohms)	0.00976 Corr: ...	
L2-L3 (Ohms)	0.00975 Corr: ...	
L3-L1 (Ohms)	0.00976 Corr: ...	
Max Delta R %	0.100	
Coil 1 (Ohms)	0.01464 Corr: ...	
Coil 2 (Ohms)	0.01461 Corr: ...	
Coil 3 (Ohms)	0.01463 Corr: ...	
Megohm Stat	PASS	N/A Test
Nameplate	Application	Results Summary



20. Perform Surge Test

(P) Pass



21. Number of Stator Slots

22. Stator Condition

23. Stator Thermistors/Ohms

24. Stator Overloads/Ohms

### Mechanical Inspection

25. Drive End Bearing Brand

26. Drive End Bearing Number- 6322

27. Drive End Bearing Qty. 1

28. Drive End Bearing Type (Ball) Ball Bearing

29. Drive End Lubrication Type (Grease) Grease Lubricated

30. Drive End Bearing Insulation or Grounding Device?

31. Drive End Wavy Washer/Snap-Ring Other Retention Device?

32. Drive End Bearing Condition

Contamination



33. Opposite Drive End Bearing Brand NSK

34. Opposite Drive End Bearing Number- 6319

35. Opposite Drive End Bearing Qty. 1

36. Opposite Drive End Bearing Type (Ball) Ball Bearing

37. Opposite Drive End Lubrication Type (Grease) Grease Lubricated

38. Opposite Drive End Bearing Insulation or Grounding Device?

39. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device? snap ring and springs

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41. Drive End Seal

42. Opposite Drive End Seal

**Rotor Inspection**

43. Rotor Type/Material

(Squirrel Aluminum) Squirrel  
Cage Aluminum Die Cast

44. Growler Test

(Pass) Pass

45. Number of Rotor Bars

58

● 46. Rotor Condition

47. List the Parts needed for the Repair Below

6322  
6319

48. Signature of Technician that Disassembled Motor

Crw

**Mechanical Fits- Rotor**

49. Shaft Runout

inches

50. Rotor Runout

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

51. Coupling Fit Closest to Bearing Housing

0 Degrees

90 Degrees

120 Degrees

52. Coupling Fit Closest to the end of the Shaft

0 Degrees

60 Degrees

120 Degrees

53. Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

4.3312-4.3312-4.3313

● 54. Drive End Bearing Shaft Fit Condition

(P) Pass

55. Opposite Drive End Bearing Shaft Fit		
0 Degrees	60 Degrees	120 Degrees
<div> <div></div> 3.7404-3.7406-3.7405 </div>		
56. Opposite Drive End Bearing Shaft Fit Condition		(P) Pass
57. Shaft Air Seal Fits		
Drive End Air Seal	Opposite Drive End Air Seal	
<b>Mechanical Fits- Bearing Housings</b>		
58. Drive End - Endbell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
<div> <div></div> 9.4490-9.4494-9.4493 </div>		
59. Drive End - Endbell Bearing Fit Condition		(P) Pass
60. Opposite Drive End - Endbell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
<div> <div></div> 7.8744-7.8744-7.8745 </div>		
61. Opposite Drive End - Endbell Bearing Fit Condition		(P) Pass
62. Bearing Cap Condition		
Drive End Bearing Cap	Opposite Drive End Bearing Cap	



63. End Bell Air Seal Fits		
Drive End Air Seal	Opposite Drive End Air Seal	
64. List Machine Work Needed Below		
65. Technician		Cw
<div> <div></div> Co sign: RRW </div>		
<b>Root Cause of Failure</b>		
66. Failure locations		
<i>Bearings</i>		

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67. Root cause of failure			
<i>Contamination</i>			
<b>Dynamic Balance Report</b>			
68. Rotor Weight and Balance Grade			
Rotor Weight		Balance Grade	
69. Initial Balance Readings			
Drive End		Opposite Drive End	
70. Final Balance Readings			
Drive End		Opposite Drive End	
71. Technician			
<b>Assembly</b>			
72. QC Check All Parts for Cleanliness Prior to Assembly			
73. Photograph All Major Components prior to assembly			
74. Final Insulation Resistance Test			
75. Assembled Shaft Endplay			
76. Assembled Shaft Runout			
77. Test Run Voltage			
Volts	Volts	Volts	
78. Test Run Amperage			
Amps	Amps	Amps	
79. Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical	Axial	
80. Opposite Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical	Axial	
81. Ambient Temperature - Fahrenheit			
82. Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
83. Opposite Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
84. Document Final Condition with Pictures after paint			
85. Final Pics and QC Review			



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5. **DELIVERY OF GOODS AND/OR SERVICES.** Unless otherwise identified in the quotation, all shipments are F.O.B. Hi-Speed's warehouse and the title to and all risk of loss with respect to any goods shipped shall pass to Buyer when such goods are delivered to the carrier at Hi-Speed's warehouse. Hi-Speed will use its best efforts to affect delivery by the date or dates specified in the quotation. However, Hi-Speed shall not be liable for delay in or failure to make shipment, or to perform services, by any identified date for any reason whatsoever, including but not limited to, causes beyond its reasonable control, such as strikes, fires, floods, epidemics, quarantines, restrictions, severe weather, embargos, acts of God, or public enemy, war, riot, delays in transportation or the inability to obtain necessary labor, materials or manufacturing facilities.
6. **DELIVERY SITE AND TIME FOR PERFORMANCE.** Hi-Speed and Buyer agree that time is of the essence for the purchase order and that Buyer shall fully cooperate with Hi-Speed in order to allow Hi-Speed full access to prosecute its work diligently and in an orderly manner. Buyer shall assist Hi-Speed in every way possible to avoid delaying, disrupting or interfering with the progress of Hi-Speed's work at the project site. In the event Hi-Speed's work is delayed, hindered, suspended, disrupted, re-sequenced or interfered with or rendered less efficient or more costly or adversely affected in any way as a result of acts or omissions of Buyer or other contractors or employees of Buyer or by any other reason beyond Hi-Speed's control and without the fault of Hi-Speed, then, in such event, Buyer shall be liable to Hi-Speed for any damages, additional costs, expenses, labor, materials, man hours, acceleration costs, overtime, additional jobsite overhead, extended home office overhead, and any and all other direct and indirect expenses of whatsoever nature or kind, caused in whole or in part, as a result of any of the above-referenced occurrences. Hi-Speed's project records will be the basis for computing the additional costs and damages of Hi-Speed's labor, materials, expenses and overhead related to such changes. BUYER WARRANTS THAT THE SITE FOR DELIVERY OR INSTALLATION OF ANY GOODS AND/OR FOR THE PERFORMANCE OF ANY SERVICES SHALL BE READY AND ADEQUATE FOR HI-SPEED'S DELIVERY OF GOODS AND/OR PERFORMANCE OF SERVICES AND THAT HI-SPEED SHALL HAVE FULL ACCESS THERETO, FREE OF ALL OBSTRUCTIONS. BUYER SHALL ASSUME ALL EXTRA COSTS ASSOCIATED WITH HI-SPEED'S INABILITY TO INSTALL ANY GOODS OR PERFORM ANY SERVICES AS A RESULT OF BUYER'S FAILURE TO COMPLY WITH THIS PROVISION. HI-SPEED MAY NOT INSPECT THE SITE PRIOR TO DELIVERY AND/OR INSTALLATION OF GOODS AND/OR PERFORMANCE OF SERVICES AND MAKES NO WARRANTY AS TO THE SUFFICIENCY OF THE SITE FOR THE DELIVERY AND/OR INSTALLATION OF GOODS AND/OR THE PERFORMANCE OF SERVICES AT SUCH SITE.
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8. **WARRANTIES.** Hi-Speed warrants that all goods shall conform in all material aspects to the goods identified in the quotation to Buyer and/or purchase order, and Hi-Speed makes to Buyer the manufacturer's express warranty for any goods sold to Buyer, which is offered by the manufacturer at the time of acceptance of any quotation by Buyer. This warranty is conditioned upon the installation, operation, and maintenance of the goods in accordance with the manufacturer's recommendations and/or standard industry practice and the goods at all times being operated or used under normal operating conditions for which they were designed. Hi-Speed, at its sole option, will repair or



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11. **GOVERNING LAW AND JURISDICTION.** Any controversy arising out of any quotation, the purchase order, the goods sold or delivered, repair or replacement thereof, or any services provided pursuant to any quotation or any purchase order, or these Standard Terms and Conditions shall be governed by the laws of the state of Tennessee without regard to any choice of law provisions and any cause of action related in any manner thereto shall be brought only in the state or federal courts of Shelby County, Tennessee.
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16. **NO INDIVIDUAL LIABILITY.** Notwithstanding any other agreement to the contrary, the Buyer agrees that in no event will the Buyer hold and Hi-Speed owner, director, officer or employee personally liable for unintentional tortious conduct or conduct that constitutes the breach of any contract between Hi-Speed and the Buyer, even if the Hi-Speed owner, director, officer or employee is or could be construed to be a party to such contract.