

# LR Motor Shop Repairs

# **Job Number 101467**

Prepared for DELTA PLASTICS OF THE SOUTH

3104 SOUTH MAIN STREET STUTTGART AR 72160

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AC Inspection as Found - Shop

AC Inspection - Rev. 2: 1053634377

1.0



FolderID: 101467

FormID: 16988411



#### **AC Inspection as Found DELTA PLASTICS OF THE SOUTH**

3104 SOUTH MAIN STREET STUTTGART, AR 72160

AC Inspection - Rev. 2

Location:

Serial Number: 1053634377

Description:400hp weg 1200 rpm 447/9t

Shop

Hi-Speed Job Number:	101467
Manufacturer:	WEG
Product Number:	40012ET3G449T W22
HP/kW:	400 (HP)
RPM:	1190 (RPM)
Frame:	447/9T
Voltage:	460
Current:	477
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.00
Enclosure:	TEFC
# of Leads:	12
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	04/07/2023
Repair Stage:	Final
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: **2 - High** 

7 - Good

### **Overall Condition**

- Report Date
- Nameplate Picture



Photos of all six sides of the machine.

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Describe the Overall Condition of the Equipment as Received Dirty

I	Initial Mechanical/Electrical			
	5.	Does Shaft Turn Freely?	(Yes) Yes	
	6.	Does Shaft Have Visible Damage?	(No) No	
	7.	Assembled Shaft Runout		
	8.	Assembled Shaft End Play		
	9.	Air Gap Variation <10%		
	10.	Lead Condition	(P) Pass	

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	Lead Length		48 Inches
12.	Stator Temperature Detector Ratin	g and Function	
	Quantity	Rating	Quantity Passed
-	Na		
13.	Bearing Temperature Detector Rat	ing and Function	
	Quantity	Rating	Quantity Passed
	Frame Condition		pass
-	Fan Condition		(P) Pass
16.	Heater Quantity, Ratings		
	Quantity	Volts/Watts	Pass/Fail
17	Broken or Missing Components		na
	Electrical Inspection		
	Insulation Resistance/Megger		
	Winding Resistance		
	1-2	1-3	2-3
			2 0
20.	Perform Surge Test		(NA) Not Applicable
-	Blown		
21.	Number of Stator Slots		
22.	Stator Condition		
23.	Stator Thermistors/Ohms		
24.	Stator Overloads/Ohms		
Mech	anical 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
	Drive End Bearing Insulation or Gr		
	Drive End Wavy Washer/Snap-Rin	g Other Retention Device?	na
32.	Drive End Bearing Condition		



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	Opposite Drive End Bearing Brand	
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 Groun	ding Device?
39.	Opposite Drive End Wavy Washer/Snap-Ring C	other Retention Device? springs
40.	Opposite Drive End Bearing Condition	signs of contamination
41.	Drive End Seal	na
42.	Opposite Drive End Seal	na
lotor	Inspection	
43.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
44.	Growler Test	(Pass) Pass
45.	Number of Rotor Bars	
46.	Rotor Condition	pass
47.	List the Parts needed for the Repair Below 6322 6319 Aegis ring	
_ /	M	
	anical Fits- Rotor	
49.	anical Fits- Rotor Shaft Runout	
49.	anical Fits- Rotor Shaft Runout Rotor Runout	Onn saita Deiva En d Bassin s
49.	anical Fits- Rotor Shaft Runout	ody Opposite Drive End Bearing
49. 50.	anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit Rotor B	ody Opposite Drive End Bearing
49. 50.	anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit Rotor B Coupling Fit Closest to Bearing Housing	
49. 50.	anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit Rotor B	
49. 50.	anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit Rotor B  Coupling Fit Closest to Bearing Housing 0 Degrees 90 Degrees	
49. 50. 51.	anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit Rotor B  Coupling Fit Closest to Bearing Housing 0 Degrees 90 Degrees	rees 120 Degrees
49. 50. 51.	anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit Rotor B  Coupling Fit Closest to Bearing Housing 0 Degrees 90 Degr  Coupling Fit Closest to the end of the Shaft 0 Degrees 60 Degrees	rees 120 Degrees
49. 50. 51.	anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit Rotor B  Coupling Fit Closest to Bearing Housing 0 Degrees 90 Degr  Coupling Fit Closest to the end of the Shaft 0 Degrees 60 Degrees	rees 120 Degrees rees 120 Degrees
<ul><li>49.</li><li>50.</li><li>51.</li><li>52.</li><li>53.</li><li>54.</li></ul>	anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit Rotor B  Coupling Fit Closest to Bearing Housing 0 Degrees 90 Degr  Coupling Fit Closest to the end of the Shaft 0 Degrees 60 Degr  Drive End Bearing Shaft Fit 0 Degrees 60 Degrees  Drive End Bearing Shaft Fit Condition	rees 120 Degrees rees 120 Degrees
<ul><li>49.</li><li>50.</li><li>51.</li><li>52.</li><li>53.</li></ul>	anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit Rotor B  Coupling Fit Closest to Bearing Housing 0 Degrees 90 Degr  Coupling Fit Closest to the end of the Shaft 0 Degrees 60 Degrees Drive End Bearing Shaft Fit 0 Degrees 60 Degrees Drive End Bearing Shaft Fit Condition	rees 120 Degrees  rees 120 Degrees  rees 120 Degrees
<ul><li>49.</li><li>50.</li><li>51.</li><li>52.</li><li>53.</li><li>54.</li></ul>	anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit Rotor B  Coupling Fit Closest to Bearing Housing 0 Degrees 90 Degr  Coupling Fit Closest to the end of the Shaft 0 Degrees 60 Degr  Drive End Bearing Shaft Fit 0 Degrees 60 Degrees  Drive End Bearing Shaft Fit Condition	rees 120 Degrees  rees 120 Degrees  rees 120 Degrees  (P) Pass
<ul><li>49.</li><li>50.</li><li>51.</li><li>52.</li><li>53.</li><li>54.</li></ul>	anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit Rotor B  Coupling Fit Closest to Bearing Housing 0 Degrees 90 Degr  Coupling Fit Closest to the end of the Shaft 0 Degrees 60 Degr  Drive End Bearing Shaft Fit 0 Degrees 60 Degrees  Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit 0 Degrees 60 Degrees  60 Degrees 60 Degrees	rees 120 Degrees  rees 120 Degrees  rees 120 Degrees  (P) Pass
<ul><li>49.</li><li>50.</li><li>51.</li><li>52.</li><li>53.</li><li>54.</li><li>55.</li><li>56.</li></ul>	anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit Rotor B  Coupling Fit Closest to Bearing Housing 0 Degrees 90 Degr  Coupling Fit Closest to the end of the Shaft 0 Degrees 60 Degr  Drive End Bearing Shaft Fit 0 Degrees 60 Degrees  Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit 0 Degrees 60 Degrees  60 Degrees 60 Degrees	rees 120 Degrees  rees 120 Degrees  rees 120 Degrees  (P) Pass
<ul><li>49.</li><li>50.</li><li>51.</li><li>52.</li><li>53.</li><li>54.</li><li>55.</li><li>56.</li></ul>	anical Fits- Rotor Shaft Runout Rotor Runout Drive End Bearing Fit Rotor B  Coupling Fit Closest to Bearing Housing 0 Degrees 90 Degr  Coupling Fit Closest to the end of the Shaft 0 Degrees 60 Degr  Drive End Bearing Shaft Fit 0 Degrees 60 Degr  Drive End Bearing Shaft Fit Condition Opposite Drive End Bearing Shaft Fit 0 Degrees 60 Degrees Opposite Drive End Bearing Shaft Fit Shaft Air Seal Fits	rees 120 Degrees  rees 120 Degrees  rees 120 Degrees  (P) Pass

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50.			
	Drive End - Endbell Bearing Fit	60 Dagraga	120 Degrees
	0 Degrees	60 Degrees	120 Degrees
59.	Drive End - Endbell Bearing Fit Con-	dition	(P) Pass
60.	•		( )
	0 Degrees	60 Degrees	120 Degrees
		55 _ 5 <b>g</b> .555	
<b>6</b> 1.	Opposite Drive End - Endbell Bearing	g Fit Condition	(P) Pass
62.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
-	Pass		
63.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
6/	List Machine Work Needed Below		
U <del>-1</del> .	Na		
65	Technician		Cw
00.	/		<b></b>
Root	Cause of Failure		
66.	Failure locations		
	Windings and bearings		
67.			
	Root cause of failure		
	Root cause of failure Windings blown and signs of frosting	in DE bearing	
Dyna		in DE bearing	
-	Windings blown and signs of frosting	in DE bearing	
-	Windings blown and signs of frosting mic Balance Report	in DE bearing  Balance Grade	
68.	Windings blown and signs of frosting mic Balance Report Rotor Weight and Balance Grade Rotor Weight		
68.	Windings blown and signs of frosting mic Balance Report Rotor Weight and Balance Grade Rotor Weight Initial Balance Readings	Balance Grade	
68.	Windings blown and signs of frosting mic Balance Report Rotor Weight and Balance Grade Rotor Weight		
68. 69.	Windings blown and signs of frosting mic Balance Report Rotor Weight and Balance Grade Rotor Weight Initial Balance Readings Drive End	Balance Grade	
68. 69.	Windings blown and signs of frosting mic Balance Report Rotor Weight and Balance Grade Rotor Weight Initial Balance Readings Drive End Final Balance Readings	Balance Grade  Opposite Drive End	
68. 69.	Windings blown and signs of frosting mic Balance Report Rotor Weight and Balance Grade Rotor Weight Initial Balance Readings Drive End	Balance Grade	
68. 69. 70.	Windings blown and signs of frosting mic Balance Report Rotor Weight and Balance Grade Rotor Weight Initial Balance Readings Drive End Final Balance Readings	Balance Grade  Opposite Drive End	
68. 69. 70.	Windings blown and signs of frosting mic Balance Report Rotor Weight and Balance Grade Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician	Balance Grade  Opposite Drive End	
68. 69. 70. 71. <b>Rewi</b> l	Windings blown and signs of frosting mic Balance Report Rotor Weight and Balance Grade Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician	Balance Grade  Opposite Drive End  Opposite Drive End	
68. 69. 70. 71. <b>Rewi</b> l	Windings blown and signs of frosting mic Balance Report Rotor Weight and Balance Grade Rotor Weight  Initial Balance Readings Drive End  Final Balance Readings Drive End  Technician nd  Core Test Results - Watts loss per F	Balance Grade  Opposite Drive End  Opposite Drive End	
68. 69. 70. 71. <b>Rewi</b> l	Windings blown and signs of frosting mic Balance Report Rotor Weight and Balance Grade Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician	Balance Grade  Opposite Drive End  Opposite Drive End	
68. 69. 70. 71. Rewii	Windings blown and signs of frosting mic Balance Report Rotor Weight and Balance Grade Rotor Weight  Initial Balance Readings Drive End  Final Balance Readings Drive End  Technician nd  Core Test Results - Watts loss per F	Balance Grade  Opposite Drive End  Opposite Drive End	
68. 69. 70. 71. Rewii	Windings blown and signs of frosting mic Balance Report Rotor Weight and Balance Grade Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician Ind Core Test Results - Watts loss per F	Balance Grade  Opposite Drive End  Opposite Drive End	
68. 69. 70. 71. Rewii 72.	Windings blown and signs of frosting mic Balance Report Rotor Weight and Balance Grade Rotor Weight  Initial Balance Readings Drive End  Final Balance Readings Drive End  Technician nd  Core Test Results - Watts loss per F Pre-Burnout  Core Hot Spot Test Pre-Burnout	Balance Grade  Opposite Drive End  Opposite Drive End  Pound Post Burnout  Post-Burnout	
68. 69. 70. 71. Rewii 72. 73.	Windings blown and signs of frosting mic Balance Report Rotor Weight and Balance Grade Rotor Weight  Initial Balance Readings Drive End  Final Balance Readings Drive End  Technician nd  Core Test Results - Watts loss per F Pre-Burnout  Core Hot Spot Test	Balance Grade  Opposite Drive End  Opposite Drive End  Pound Post Burnout  Post-Burnout	

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76	Post Rewind Winding Resistance		
70.	•	4.0	0.0
	1-2	1-3	2-3
77	Post Rewind Surge Test		
	Post Rewind Hi-Pot		
	Technician		
	anical Fits- Rotor - Post Repair		
	Shaft Runout Post Repair		
81.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
92	Coupling Fit Closest to Bearing Housi	ng Doot Donoir	
02.			400 Dagrasa
	0 Degrees	90 Degrees	120 Degrees
83	Coupling Fit Closest to the end of the	Shaft Post Repair	
33.	0 Degrees	60 Degrees	120 Degrees
	5 Dog.000	55 Dog. 555	120 Dog1000
84.	Drive End Bearing Shaft Fit Post Repa	air	
	0 Degrees	60 Degrees	120 Degrees
	3		- 3
85.	Opposite Drive End Bearing Shaft Fit	Post Repair	
	0 Degrees	60 Degrees	120 Degrees
86.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
	Shaft Repair Sign-off		
	anical Fits- Bearing Housings - P	•	
88.	Drive End - Endbell Bearing Fit Post F	•	
	0 Degrees	60 Degrees	120 Degrees
89.	Opposite Drive End - Endbell Bearing	·	400 Danier
	0 Degrees	60 Degrees	120 Degrees
90	Bearing Cap Condition Post Repair		
00.	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	Drive Life Bearing Cap	Opposite Drive Life Bearing Cap	
91.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
	2.110 2.10 7 000	- CPP-00110 2.110 2.110 7.111 CCG.	
92.	End Bell Repair Sign-off		
Asser	nbly		
93.	QC Check All Parts for Cleanliness Pr	rior to Assembly	
94.	Photograph All Major Components pri	or to assembly	
95.	Final Insulation Resistance Test		
95.			
	Assembled Shaft Endplay		

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98.	Test Run Voltage		
	Volts	Volts	Volts
99.	Test Run Amperage		
	Amps	Amps	Amps
100.	Drive End Vibration Readings - Inches	Per Second	
	Horizontal	Vertical	Axial
101.	Opposite Drive End Vibration Reading	s - Inches Per Second	
	Horizontal	Vertical	Axial
102.	Ambient Temperature - Fahrenheit		
103. Drive End Bearing Temps - Fahrenheit			
	5 Minutes	10 Minutes	15 Minutes
104. Opposite Drive End Bearing Temps - Fahrenheit			
	5 Minutes	10 Minutes	15 Minutes
105. Document Final Condition with Pictures after paint			
106.	Final Pics and QC Review		

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- 5. <u>DELIVERY OF GOODS AND/OR SERVICES.</u> 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.
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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.
- 12. ABANDONED EQUIPMENT. Hi-Speed requires that Buyer promptly pick up or provide shipment instructions for Buyer equipment or other Buyer property in Hi-Speed's possession. If equipment or other Buyer property is left with Hi-Speed and not picked up within six (6) months after Hi-Speed's final action related to the applicable property (e.g. evaluation, teardown, estimate, completion of services), Hi-Speed will consider such property abandoned and may dispose of it in accordance with applicable law. Buyer agrees to hold Hi-Speed harmless for any damage or claim for such abandoned property and acknowledges that Hi-Speed may discard or recycle it at Hi-Speed's sole and absolute discretion. Specifically, Hi-Speed may sell Buyer's abandoned property at a private or public sale and retain the proceeds to offset Hi-Speed's storage, inspection and servicing costs. For the avoidance of doubt, Hi-Speed reserves its statutory and other lawful liens for unpaid charges related to abandoned property.
- 13. FORCE MAJEURE. Neither party shall be responsible for any delay or failure in performance of any party of the quotation, purchase order or these Standard Terms and Conditions to the extent that such delays or failures are caused by fire, flood, earth quake, explosion, war, embargo, government requirement, civil or military authority, acts of God, or any other circumstances beyond its reasonable control and not involving any fault or negligence on the party affected ("Condition"). If any such Condition occurs, the party delayed or unable to perform shall promptly give written notice to the other party and, if such Condition remains at the end of thirty (30) days, the party affected by the other party's delay and inability to perform may elect to (i) terminate such order or part thereof, or (ii) suspend the order for the duration of the Condition, if the Buyer is the suspending party, buy elsewhere comparable material to be sold under the order and apply to any commitment the purchase price of such purchase, and resume performance of the order once the Condition ceases, with an option in the affected party to extend the period of this order up to the length of the time the Condition endures.
- 14. <u>NONWAIVER.</u> No course of dealing or failure of either party to strictly enforce any term, right, or condition of these Standard Terms and Conditions will be construed as a waiver of such term, right or condition. Any waiver by Hi-Speed will only be in writing and will waive no succeeding breach of a term, right or condition.
- 15. **ASSIGNMENT.** The rights and obligations of the parties shall neither be assigned nor delegated without the prior written consent of the other party. However, any party may assign or delegate its respective rights and obligations, in whole or in part, (i) to any subsidiary, (ii) pursuant to other financing, merger or reorganization or (iii) pursuant to any sale or transfer of substantially all of the assets of the assigning party. These Standard Terms and Conditions shall bind the heirs, successors and assigns of the parties hereto.
- 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.