

EVERY DAY SINCE 1946 —

LR Motor Shop Repairs

Job Number 102682

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





AC Inspection as Found

Delta Plastics (11016)

8801 Frazier Pike Little Rock, AR 72206

FolderID: 102682 FormID: 19835032

AC Inspection - Rev. 2

MOTOR SHOP LR Location:

Serial Number:

Description:150 hp

Hi-Speed Job Number:	102682
Manufacturer:	Baldor
HP/kW:	150 (HP)
RPM:	1750 (RPM)
Frame:	URL2882Z
Voltage:	460
Current:	180
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.0
Enclosure:	DP
J-box Included:	Half
Date Received:	03/21/2024
Repair Stage:	Final
Bearing Type:	Rolling Element

Priorities Found: **7 - High**



5 - Good

Overall Condition

1. Report Date 03/22/2024

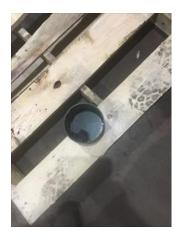
Nameplate Picture



Photos of all six sides of the machine.















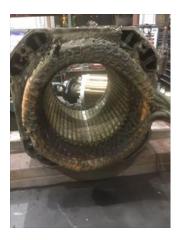


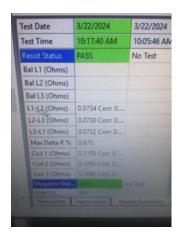






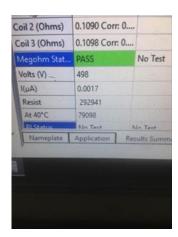






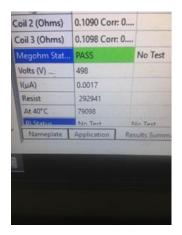


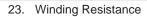




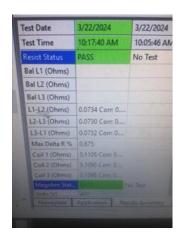
	Describe the Overall Condition of the Equipment as Received Dirty		
	5.	Distance from the end of the shaft to the Coupling/Sheave	inches
	7	Na	
In	itial	Mechanical/Electrical	
	6.	Does Shaft Turn Freely?	(N) No
	7.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(Yes) Yes
	8.	Does Shaft Have Visible Damage?	(No) No

9. Assembled Shaft Runout Na 10. Assembled Shaft End Play Na 11. Air Gap Variation <10% Na 12. Lead Condition 13. Lead Length 14. Does it have Lugs?, If so what is the Stud Size? 15. Lead Numbers 16. Stator Temperature Detector Rating and Function Quantity Rating Quantity Passed Na 17. Bearing Temperature Detector Rating and Function Quantity Rating Quantity Passed Na 18. Frame Condition Pass 19. Fan Condition Quantity Ratings Quantity Passed Na 18. Frame Condition Pass 19. Fan Condition Pass 19. Fan Condition Pass 19. Fan Condition Pass 19. Fan Condition Ratings Quantity Passed Na 20. Heater Quantity, Ratings Quantity Pass/Fail					
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Quantity Rating Quantity Passed Na 17. Bearing Temperature Detector Rating and Function Quantity Rating Quantity Passed Na 18. Frame Condition pass 19. Fan Condition (N) NA 20. Heater Quantity, Ratings Quantity Volts/Watts Pass/Fail Na 21. Broken or Missing Components na Initial Electrical Inspection		15.	Lead Numbers		1-6
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Initial Electrical Inspection 18. Frame Condition Pass Pass Pass/Fail Na Pass/Fail Pass/Fail Na Pass/Fail		17.	Bearing Temperature Detector Rating	and Function	
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19. Fan Condition (N) NA 20. Heater Quantity, Ratings Quantity Volts/Watts Pass/Fail Na 21. Broken or Missing Components na Initial Electrical Inspection		-	Na		
20. Heater Quantity, Ratings Quantity Volts/Watts Pass/Fail Na 21. Broken or Missing Components na Initial Electrical Inspection		18.	Frame Condition		pass
Quantity Volts/Watts Pass/Fail Na 21. Broken or Missing Components na Initial Electrical Inspection		19.	Fan Condition		(N) NA
Na 21. Broken or Missing Components na Initial Electrical Inspection		20.	Heater Quantity, Ratings		
21. Broken or Missing Components na Initial Electrical Inspection			Quantity	Volts/Watts	Pass/Fail
21. Broken or Missing Components na Initial Electrical Inspection					
Initial Electrical Inspection					
			- ·		na
	In	itial	Electrical Inspection		
22 Insulation Resistance/Megger Megohms		22.	Insulation Resistance/Megger		Megohms



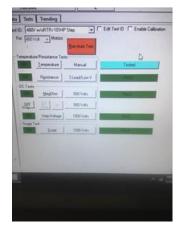


1-2 1-3 2-3



24. Perform Surge Test

(P) Pass



25.	Number of Stator Slots	48
26.	Stator Condition	
-	Needs cleans	
27.	Stator Thermistors/Ohms	
-	Na	
28.	Stator Overloads/Ohms	0.4 pass
	Stator Overloads/Ohms anical Inspection	0.4 pass







31. Drive End Bearing Qty.	1
32. Drive End Bearing Type	(Roller) Roller Bearing
33. Drive End Lubrication Type	(Grease) Grease Lubricated
34. Drive End Bearing Insulation or Grounding Device?	na
35. Drive End Wavy Washer/Snap-Ring Other Retention Device?	na
36. Drive End Bearing Condition	roller cage came apart locking bearing up





37. Opposite Drive End Bearing Brand	SKF
38. Opposite Drive End Bearing Number-	6211





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39.	Opposite Drive End Bearing Qty.	1
40.	Opposite Drive End Bearing Type	(Ball) Ball Bearing
41.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
42.	Opposite Drive End Bearing Insulation or Grounding Device?	na
43.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	na
44.	Opposite Drive End Bearing Condition	
-	Signs of contamination	



45. Drive End Seal

■ Ná

46. Opposite Drive End Seal

Na

Rotor Inspection

47. Rotor Type/Material (Squirrel Aluminum) Squirrel
Cage Aluminum Die Cast

48. Growler Test (Pass) Pass

49. Number of Rotor Bars 46

50. Rotor Condition pass

51. List the Parts needed for the Repair Below

NU 215 6211

Aegis ring- 2.9174

Insulated sleeve for DE end bell bearing fit- NU215

52. Signature of Technician that Disassembled Motor

Mechanical Fits- Rotor

53. Shaft Runout 0.002 inches

54. Rotor Runout

Drive End Bearing Fit Rotor Body Opposite Drive End Bearing

Na

	55	Coupling Fit Closest to Bearing Housi	na		
	55.	0 Degrees	90 Degrees	120 Degrees	
		0 Degrees	90 Degrees	120 Degrees	
	•	Na			
	56.	Coupling Fit Closest to the end of the	Shaft		
		0 Degrees	60 Degrees	120 Degrees	
	-	Na			
	57.	Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
		1.0	13 13		
	-	Unable to pull inner race due to being w	relded to shaft		
	58.	Drive End Bearing Shaft Fit Condition			(F) Fail
	59.	Opposite Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
		2.1658	2.1658	2.1657	
		Opposite Drive End Bearing Shaft Fit	Condition		(P) Pass
	61.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
	_				
	-	Na			
IVI		anical Fits- Bearing Housings			
	62.	Drive End - Endbell Bearing Fit	00 5	400 B	
		0 Degrees	60 Degrees	120 Degrees	
	-	Has excessive lip worn into bearing fit			
	63.	Drive End - Endbell Bearing Fit Condi	tion		(F) Fail
	64.	Opposite Drive End - Endbell Bearing			
		0 Degrees	60 Degrees	120 Degrees	
		2.9378	2.9379	2.9378	
	65.	Opposite Drive End - Endbell Bearing	Fit Condition		(P) Pass
	66.	Bearing Cap Condition			
		Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	•	Pass			
	67.	End Bell Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
	-	Na			
		List Machine Work Needed Below			
	00.	Both DE end bell and shaft bearing fits			
	60	Technician			Cw
	09.				CW
		Mun			
		1// ven/			
	_	1//			
		Witnessed by: RRW			

Root Cause of Failure

70	Failure locations		
70.	DE bearing and DE end bell and shaft b	earing fits	
71	Root cause of failure	ourng no	
	Mixing of grease and lack of lubrication	1	
Dvnai	nic Balance Report		
-	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
73.	Initial Balance Readings		
	Drive End	Opposite Drive End	
74.	Final Balance Readings		
	Drive End	Opposite Drive End	
	Technician		
Rewir			
76.	Core Test Results - Watts loss per Po		
	Pre-Burnout	Post Burnout	
77.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
	Post Rewind Electrical Test- Insulation	n Resistance	
	Post Rewind Polarization Index		
80.	Post Rewind Winding Resistance	4.0	0.0
	1-2	1-3	2-3
81.	Post Rewind Surge Test		
82.			
83.	Technician		
Mech	anical Fits- Rotor - Post Repair		
84.	Shaft Runout Post Repair		
85.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
86	Coupling Fit Closest to Bearing Housi	ng Post Repair	
00.	0 Degrees	90 Degrees	120 Degrees
	0 2 0g. 000	00 20g.000	.20 20g.000
87.	Coupling Fit Closest to the end of the	Shaft Post Repair	
	0 Degrees	60 Degrees	120 Degrees
00			120 Degrees
88.	Drive End Bearing Shaft Fit Post Rep	air	-
88.			120 Degrees 120 Degrees
88.	Drive End Bearing Shaft Fit Post Rep. 0 Degrees	air 60 Degrees	-
	Drive End Bearing Shaft Fit Post Rep. 0 Degrees	air 60 Degrees	-

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90	Shaft Air Seal Fits Post Repair				
30.	Drive End Air Seal	Opposite Drive End Air Seal			
	Drive Erid Ali Seai	Opposite Drive End All Seal			
91.	91. Shaft Repair Sign-off				
	Mechanical Fits- Bearing Housings - Post Repair				
	2. Drive End - Endbell Bearing Fit Post Repair				
	0 Degrees	60 Degrees	120 Degrees		
	S .	ŭ	ū		
93.	Opposite Drive End - Endbell Bearing	Fit Post Repair			
	0 Degrees	60 Degrees	120 Degrees		
94.	Bearing Cap Condition Post Repair				
	Drive End Bearing Cap	Opposite Drive End Bearing Cap			
95	End Bell Air Seal Fits Post Repair				
33.	Drive End Air Seal	Opposite Drive End Air Seal			
	DING ENG All Ocal	Opposite Drive Life All Ocal			
96.	End Bell Repair Sign-off				
Assen	nbly				
97.	QC Check All Parts for Cleanliness Pr	rior to Assembly			
98.	Photograph All Major Components pri	or to assembly			
99.	Final Insulation Resistance Test				
100.	Assembled Shaft Endplay				
101.	Assembled Shaft Runout				
102.	Test Run Voltage				
	Volts	Volts	Volts		
400	Tank Davis Array arrays				
103.	Test Run Amperage	Amna	Amna		
	Amps	Amps	Amps		
104.	Drive End Vibration Readings - Inches	s Per Second			
	Horizontal	Vertical	Axial		
105.	Opposite Drive End Vibration Reading	gs - Inches Per Second			
	Horizontal	Vertical	Axial		
400	Ambient Temperature 5 1 1 "				
	Ambient Temperature - Fahrenheit	:4			
107.	Drive End Bearing Temps - Fahrenhe		15 Minutes		
	5 Minutes	10 Minutes	15 Minutes		
108.	Opposite Drive End Bearing Temps -	Fahrenheit			
	5 Minutes	10 Minutes	15 Minutes		
109.	Stator Temperatures- Fahrenheit				
	5 Minutes	10 Minutes	15 Minutes		
	Document Final Condition with Picture	es atter paint			
111.	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.
- **DELIVERY SITE AND TIME FOR PERFORMANCE.** Hi-Speed and Buver 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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replace any defective or non-conforming goods in accordance with the applicable manufacturer's warranty. Warranty for any defective or incorrect parts is limited to the repair or replacement of those parts. Hi-Speed warrants that all services will conform in all material respects to the description of services identified in the quotation and will be performed in a good and workmanlike manner in accordance with industry practices and standards. Should the services be reasonably rejected or not conform with the foregoing warranties, Hi-Speed shall, at its sole cost, re-perform the defective or nonconforming services. Notwithstanding the foregoing, these warranties do not extend to goods or services to the extent that such goods have been subject to misuse, neglect or abuse not caused by Hi-Speed or have been used in violation of the approved written instructions furnished to Buyer. THE FOREGOING REPRESENTS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY HI-SPEED WITH RESPECT TO ALL GOODS SOLD AND IS IN LIEU OF ALL OTHER WARRANTIES EITHER EXPRESS OR IMPLIED. HI-SPEED EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICLAR USE OR PURPOSE. BUYER WAIVES ANY CLAIM THAT THESE EXCLUSIONS OR LIMITATIONS DEPRIVE IT OF AN ADEQUATE REMEDY AT EQUITY OR LAW OR CAUSE THIS AGREEMENT TO FAIL IN ITS ESSENTIAL PURPOSE. BUYER SHALL BE ENTITLED TO NO OTHER REMEDY OTHER THAN AS SET FORTH HEREIN, REGARDLESS OF THE CLAIM OR CAUSE OF ACTION, WHETHER BASED IN CONTRACT, TORT, NEGLIGENCE, GOODS LIABILITY, STRICT LIABILITY OR OTHERWISE.

- 9. <u>LIMITATION OF DAMAGES.</u> HI-SPEED SHALL HAVE NO LIABILITY TO BUYER WITH RESPECT TO THE SALE OR DELIVERY OF ANY GOODS OR THE REPAIR THEREOF OR WITH RESPECT TO THE SALE OR PERFORMANCE OF ANY SERVICES, FOR LOST PROFITS, SPECIAL, CONSEQUENTIAL, EXEMPLARY, PUNITIVE OR INCIDENTAL DAMAGES OF ANY KIND OR NATURE WHETHER ARISING IN CONTRACT, TORT, GOODS LIABILITY OR OTHERWISE, EVEN IF HI-SPEED WAS ADVISED OF THE POSSIBILITY OF SUCH LOSS OR DAMAGES. HI-SPEED SHALL NOT BE LIABLE FOR ANY DAMAGES OR DELAYS CAUSED BY ANY FAILURE TO MAKE ANY DELIVERY OF GOODS BY ANY EXPECTED TIME OR DATE OR THE FAILURE TO PROVIDE OR COMPLETE ANY SERVICES BY ANY EXPECTED DATE OR TIME. IN NO EVENT SHALL HI-SPEED BE LIABLE TO BUYER FOR ANY DAMAGES WHATSOEVER IN EXCESS OF THE TOTAL PRICE PAID FOR ALL GOODS AND/OR SERVICES HEREUNDER OR REFERENCED IN ANY QUOTATION OR THE PURCHASE ORDER.
- 10. <u>SEVERABILITY.</u> The partial or complete invalidity of any provision of these Standard Terms and Conditions shall not affect the enforceability of the remainder of these Standard Terms and Conditions. If any provision is found to be invalid or unenforceable, that portion shall be modified to make it enforceable or shall be stricken and the remainder of these Standard Terms and Conditions shall enforced.
- 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.