

LR Motor Shop Repairs

Job Number 103995

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: B889014-010002 HQ

1.0



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

> FolderID: 103995 FormID: 23049513

AC Inspection as Found

Delta Plastics (11016)

8801 Frazier Pike Little Rock, AR 72206

AC Inspection - Rev. 2

MOTOR SHOP LR Location: Serial Number: B889014-010002 HQ Description:150HP BALDOR 1750RPM

Hi-Speed Job Number:	103995
Manufacturer:	Baldor
Spec/ID #:	B889014
Serial Number:	B889014-010002 HQ
HP/kW:	150 (HP)
RPM:	1750 (RPM)
Frame:	URL2882Z
Voltage:	460
Current:	180 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.00
Enclosure:	DP
# of Leads:	6
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	No
Shaft Machined Fit Repairs Required:	Yes
Bearing Housing Machined Fit Repairs Required:	Yes
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 4 - High

8 - Good

Overall Condition

1. Report Date 01/30/2025

2. Nameplate Picture



- 3. Photos of all six sides of the machine.
- Marked backwards



























	4.	Describe the Overall Condition of the Equipment as Received		
		Dirty		
Ir	nitial	Mechanical/Electrical		
	5.	Does Shaft Turn Freely?	(N) No	
	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	
	9.	Assembled Shaft End Play	inches	
	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?	(No) No	
	14.	Lead Numbers	U/T1-V/T2-W/T3	
	15.	Frame Condition		
	16.	Fan Condition	(N) NA	
	17.	Broken or Missing Components	J-box cover bolts	
Ir	Initial Electrical Inspection			

18. Insulation Resistance/Megger





19. Winding Resistance

1-2 1-3 2-3



20. Perform Surge Test

(P) Pass



21. Number of Stator Slots	48
22. Stator Condition	pass

23. Stator Thermistors/Ohms

24. Stator Overloads/Ohms 0.3 ohms

Mechanical Inspection





26. Drive End Bearing Number-

NU215



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	cage failed
33. Opposite Drive End Bearing Brand	SKF



34. Opposite Drive End Bearing Number-

6211

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?	
40.	Opposite Drive End Bearing Condition	
-	Primarily contamination and early signs of frosting	



41.	Drive	Fnd	Seal

42. Opposite Drive End Seal

Rotor Inspection

44. Growler Test

Mechanical Fits- Rotor

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

45. Number of Rotor Bars 40

(Pass) Pass

40 Author of Rotor Bars

46. Rotor Condition needs cleaned

47. List the Parts needed for the Repair Below NU215 6211

Bearing sleeves for both end bell bearing fits

48. Signature of Technician that Disassembled Motor



49. Shaft Runout 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	
-	2.9550-2.9552-2.9548			
54.	Drive End Bearing Shaft Fit Condition			(F) Fail
-	Over sized			
55.	Opposite Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
-	2.1657-2.1658-2.1657			
56.	Opposite Drive End Bearing Shaft Fit	Condition		(P) Pass
57.	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
	anical Fits- Bearing Housings			
58.	Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	Excessive lip worn into fit			
59.	Drive End - Endbell Bearing Fit Condit	ion		(F) Fail
	Opposite Drive End - Endbell Bearing			(. /
	0 Degrees	60 Degrees	120 Degrees	
			0 _ 0g. 000	
-	Signs of excessive wear			
61.	Opposite Drive End - Endbell Bearing	Fit Condition		(F) Fail
62.	Bearing Cap Condition			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
62	End Bell Air Seal Fits			
03.	Drive End Air Seal	Opposite Drive End Air Seel		
	Drive Eriu Ali Seai	Opposite Drive End Air Seal		
64.	List Machine Work Needed Below			
	Both end bell bearing fits and DE shaft	bearing fit		
65.	Technician			Cw
	1 Min			
	(_		
-	Co sign: TRH			
Root (Cause of Failure			
66.	Failure locations			
	Bearings and bearing fits			
67.	Root cause of failure			
	Cage failed on DE bearing			
Dynar	nic Balance Report			
68.	Rotor Weight and Balance Grade			
	Rotor Weight	Balance Grade		

69.	Initial Balance Readings		
	Drive End	Opposite Drive End	
	2.11.6 2.116	opposite zime zina	
70.	Final Balance Readings		
	Drive End	Opposite Drive End	
	Technician		
	anical Fits- Rotor - Post Repair		
	Shaft Runout Post Repair		
73.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
7/	Coupling Fit Closest to Bearing Housi	ng Poet Renair	
77.	0 Degrees	90 Degrees	120 Degrees
	o Degrees	30 Degrees	120 Degrees
75.	Coupling Fit Closest to the end of the	Shaft Post Repair	
	0 Degrees	60 Degrees	120 Degrees
76.	Drive End Bearing Shaft Fit Post Rep	air	
	0 Degrees	60 Degrees	120 Degrees
77	On a seite Daise Ford Desaits a Chaft Fit	Deat Densin	
77.	Opposite Drive End Bearing Shaft Fit		420 Daggae
	0 Degrees	60 Degrees	120 Degrees
78.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
		· ·	
	Shaft Repair Sign-off		
	anical Fits- Bearing Housings - P	•	
80.	Drive End - Endbell Bearing Fit Post F		
	0 Degrees	60 Degrees	120 Degrees
Ω1	Opposite Drive End - Endbell Bearing	Fit Doet Panair	
01.	0 Degrees	60 Degrees	120 Degrees
	o Degrees	00 Degrees	120 Degrees
82.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
83.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
8.4	End Bell Repair Sign-off		
Asser	· · · · · ·		
	QC Check All Parts for Cleanliness Pi	rior to Assembly	
86.	Photograph All Major Components pri	•	
87.			
_	Assembled Shaft Endplay		
	Assembled Shaft Runout		

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90.	0. Test Run Voltage		
	Volts	Volts	Volts
91.	Test Run Amperage		
	Amps	Amps	Amps
92. Drive End Vibration Readings - Inches Per Second			
	Horizontal	Vertical	Axial
93.	Opposite Drive End Vibration Reading	gs - Inches Per Second	
	Horizontal	Vertical	Axial
94.	Ambient Temperature - Fahrenheit		
95.	Drive End Bearing Temps - Fahrenhe	it	
	5 Minutes	10 Minutes	15 Minutes
96.	Opposite Drive End Bearing Temps -	Fahrenheit	
	5 Minutes	10 Minutes	15 Minutes
97.	Document Final Condition with Picture	es after paint	
98.	Final Pics and QC Review		

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- 8. <u>WARRANTIES.</u> 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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