



## AC Inspection as Found

Delta Plastics (11016)

8801 Frazier Pike

Little Rock, AR 72206

FolderID: 103995

FormID: 23049513

### AC Inspection - Rev. 2

Location: MOTOR SHOP LR  
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 9 - Good

### Overall Condition



1. Report Date

01/30/2025

## 2. Nameplate Picture

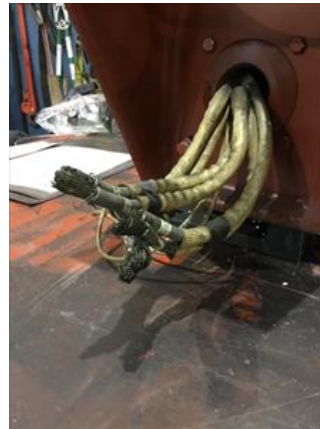
P37

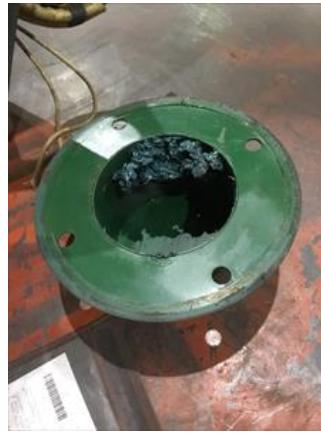


3. Photos of all six sides of the machine.

P45

 **Marked backwards**







4. Describe the Overall Condition of the Equipment as Received

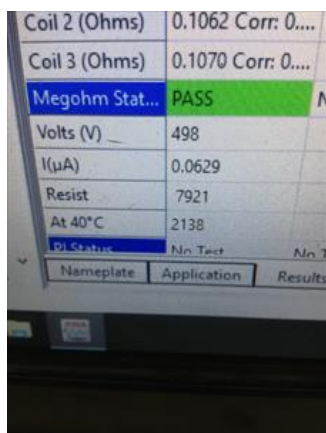
*Dirty*

#### Initial 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

#### Initial Electrical Inspection





1-2

1-3

2-3



## Mechanical Inspection





25. Drive End Bearing Brand

FAG

P12



26. Drive End Bearing Number-

NU215

P32



27. Drive End Bearing Qty.

1

28. Drive End Bearing Type

(Roller) Roller 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

P92






34. Opposite Drive End Bearing Number-








6211

35. Opposite Drive End Bearing Qty.

1

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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	P118
 Primarily contamination and early signs of frosting	
	
41. Drive End Seal	
42. Opposite Drive End Seal	
<b>Rotor Inspection</b>	
43. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
44. Growler Test	(Pass) Pass
45. Number of Rotor Bars	40
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	Cw
	
<b>Mechanical Fits- Rotor</b>	
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
	 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	
<b>Mechanical Fits- Bearing Housings</b>			
58.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	 Excessive lip worn into fit		
59.	Drive End - Endbell Bearing Fit Condition		(F) Fail
60.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	 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	
63.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
64.	List Machine Work Needed Below <i>Both end bell bearing fits and DE shaft bearing fit</i>		
65.	Technician		Cw
			
	 Co sign: TRH		
<b>Root Cause of Failure</b>			
66.	Failure locations <i>Bearings and bearing fits</i>		
67.	Root cause of failure <i>Cage failed on DE bearing</i>		
<b>Dynamic Balance Report</b>			



## 68. Rotor Weight and Balance Grade

Rotor Weight

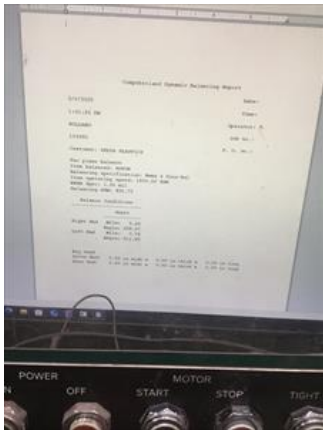
Balance Grade

## 69. Initial Balance Readings

P11

Drive End

Opposite Drive End

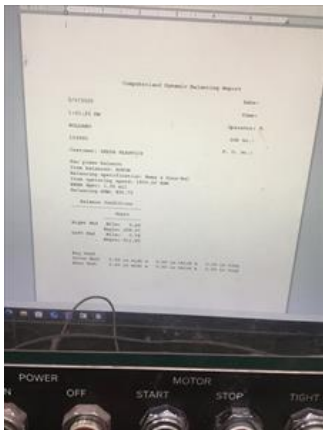


## 70. Final Balance Readings

P27

Drive End

Opposite Drive End



## 71. Technician

Terrence Holland

## Mechanical Fits- Rotor - Post Repair



## 72. Shaft Runout Post Repair

inches

## 73. Rotor Runout Post Repair

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

## 74. Coupling Fit Closest to Bearing Housing Post Repair

0 Degrees

90 Degrees

120 Degrees

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75. Coupling Fit Closest to the end of the Shaft Post Repair

0 Degrees	60 Degrees	120 Degrees
2.9543	2.9543	2.9543



76. Drive End Bearing Shaft Fit Post Repair

0 Degrees	60 Degrees	120 Degrees
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77. Opposite Drive End Bearing Shaft Fit Post Repair

0 Degrees	60 Degrees	120 Degrees
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78. Shaft Air Seal Fits Post Repair

Drive End Air Seal	Opposite Drive End Air Seal
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79. Shaft Repair Sign-off

**Mechanical Fits- Bearing Housings - Post Repair**



80. Drive End - Endbell Bearing Fit Post Repair

0 Degrees	60 Degrees	120 Degrees
5.1186	5.1186	5.1186



81. Opposite Drive End - Endbell Bearing Fit Post Repair

0 Degrees	60 Degrees	120 Degrees
3.9377	3.9378	3.9377



82. Bearing Cap Condition Post Repair

Drive End Bearing Cap	Opposite Drive End Bearing Cap
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83. End Bell Air Seal Fits Post Repair

Drive End Air Seal	Opposite Drive End Air Seal
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84. End Bell Repair Sign-off

Gary

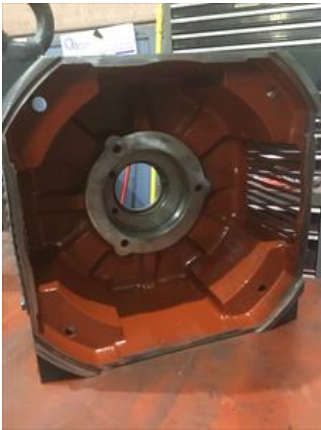
Assembly



85. QC Check All Parts for Cleanliness Prior to Assembly

Terrence Holland





88. Assembled Shaft Endplay inches

89. Assembled Shaft Runout 0.001 inches

90. Test Run Voltage P56

Volts	Volts	Volts
458	458	459



91. Test Run Amperage P65

Amps	Amps	Amps
48.5	48.2	47.9









92. Drive End Vibration Readings - Inches Per Second

Horizontal	Vertical	Axial
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93. Opposite Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical	Axial	
94. Ambient Temperature - Fahrenheit			
95. Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
96. Opposite Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
97. Document Final Condition with Pictures after paint	P129		
<div></div>			
98. Final Pics and QC Review	Terrence. Holland		
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<div> Co sign TLH</div>			