



AC Inspection as Found

Georges Inc
1810 S. St. Louis Street
Batesville, AR 72501

FolderID: 101925
FormID: 18054438

AC Inspection - Rev. 2

Location: Shop

Serial Number: A280622201

Description: 75HP BALDOR 1800RPM 365TS

Hi-Speed Job Number: 101925

Manufacturer: Baldor

Product Number: EM4316TS

Spec/ID #: A36-0005-4148

Serial Number: A280622201

HP/kW: 75 (HP)

RPM: 1780 (RPM)

Frame: 365TS

Voltage: 230 / 460

Current: 174/87

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.15

Enclosure: TEFC

J-box Included: Complete

Coupling/Sheave: None

Stator RTDs: No

Repair Stage: Final

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found: ● 9 - Good

Overall Condition



1. Report Date

2. Nameplate Picture

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3. Photos of all six sides of the machine.

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4. Describe the Overall Condition of the Equipment as Received

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%	



11. Lead Length	15 Inches
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12. Lead Numbers	1-9
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13. Bearing Temperature Detector Rating and Function	
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Quantity	Rating	Quantity Passed
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Na

14. Frame Condition	dirty
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15. Fan Condition	(P) Pass
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16. Broken or Missing Components	0
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Initial Electrical Inspection



17. Insulation Resistance/Megger	64021 Megohms
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18. Winding Resistance	
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1-2	1-3	2-3
.093	.0926	.0925

<div><div></div><div>19. Perform Surge Test</div></div>	<div>(P) Pass</div>	<div>P57</div>
<div></div>		
<div>20. Number of Stator Slots</div>	<div>60</div>	
<div>21. Stator Condition</div>	<div>wash and bake</div>	<div>P78</div>
<div></div>	<div></div>	
<div>22. Stator Thermistors/Ohms</div>	<div>Na</div>	
<div>23. Stator Overloads/Ohms</div>	<div>Na</div>	
<div>Mechanical Inspection<div></div></div>		
<div>24. Drive End Bearing Brand</div>	<div>Nachi</div>	
<div>25. Drive End Bearing Number-</div>	<div>6313</div>	<div>P29</div>
<div></div>	<div></div>	
<div>26. Drive End Bearing Qty.</div>	<div>1</div>	
<div>27. Drive End Bearing Type</div>	<div>(Ball) Ball Bearing</div>	
<div>28. Drive End Lubrication Type</div>	<div>(Grease) Grease Lubricated</div>	

29.	Drive End Bearing Insulation or Grounding Device?	na	
30.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	na	
31.	Drive End Bearing Condition		
32.	Opposite Drive End Bearing Brand	Nachi	
33.	Opposite Drive End Bearing Number-	6313	P89




34.	Opposite Drive End Bearing Qty.	1
35.	Opposite Drive End Bearing Type	(Ball) Ball Bearing
36.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
37.	Opposite Drive End Bearing Insulation or Grounding Device?	Na
38.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer
39.	Opposite Drive End Bearing Condition	
40.	Drive End Seal	na
41.	Opposite Drive End Seal	




Rotor Inspection

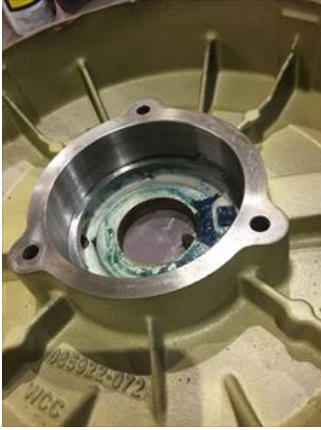
42.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
43.	Growler Test	(Pass) Pass
44.	Number of Rotor Bars	47
45.	Rotor Condition	pass
46.	List the Parts needed for the Repair Below <i>2 -6313 Bearings</i>	
47.	Signature of Technician that Disassembled Motor	RW



Mechanical Fits- Rotor

48.	Shaft Runout	
49.	Rotor Runout	
	Drive End Bearing Fit	Rotor Body
		Opposite Drive End Bearing
50.	Coupling Fit Closest to Bearing Housing	
	0 Degrees	90 Degrees
		120 Degrees

51.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
52.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	2.5595	2.5595	2.5595
53.	Drive End Bearing Shaft Fit Condition (P) Pass		
54.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	2.5593	2.5593	2.5593
55.	Opposite Drive End Bearing Shaft Fit Condition (P) Pass		
56.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
Mechanical Fits- Bearing Housings 			
57.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	5.5125	5.5124	5.5123
58.	Drive End - Endbell Bearing Fit Condition (P) Pass		
			
59.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	5.5126	5.5126	5.5126
			



61. Bearing Cap Condition

Drive End Bearing Cap

Opposite Drive End Bearing Cap

pass

pass

62. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

63. List Machine Work Needed Below

64. Technician

RW

RW

Dynamic Balance Report



65. Rotor Weight and Balance Grade

Rotor Weight

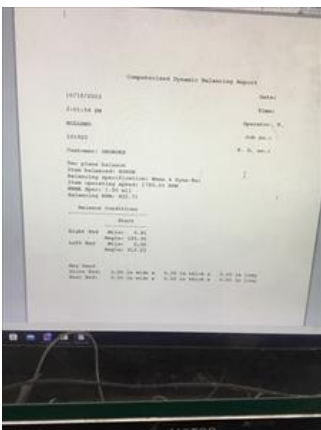
Balance Grade

66. Initial Balance Readings

Drive End

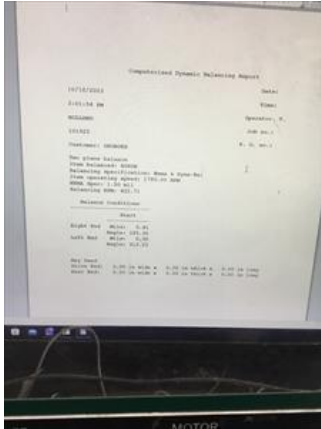
Opposite Drive End

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Drive End

Opposite Drive End



68. Technician

Terrence Holland

Rewind

69. Core Test Results - Watts loss per Pound

Pre-Burnout

Post Burnout

70. Core Hot Spot Test

Pre-Burnout

Post-Burnout

71. Post Rewind Electrical Test- Insulation Resistance

72. Post Rewind Polarization Index

73. Post Rewind Winding Resistance

1-2

1-3

2-3

74. Post Rewind Surge Test

75. Post Rewind Hi-Pot

76. Technician

Root Cause of Failure

77. Failure locations

78. Root cause of failure

Mechanical Fits- Rotor - Post Repair

79. Shaft Runout Post Repair

80. Rotor Runout Post Repair

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

81. Coupling Fit Closest to Bearing Housing Post Repair

0 Degrees

90 Degrees

120 Degrees

82.	Coupling Fit Closest to the end of the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees
83.	Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
84.	Opposite Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
85.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
86.	Shaft Repair Sign-off		
Mechanical Fits- Bearing Housings - Post Repair			
87.	Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
88.	Opposite Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
89.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
90.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
91.	End Bell Repair Sign-off		
Assembly			



93. Photograph All Major Components prior to assembly

(Complete) Complete

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95. Assembled Shaft Endplay

0 inches

96. Assembled Shaft Runout

0.001 inches

97. Test Run Voltage

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Volts

Volts

Volts

462

460

461

Witness by RHR



98. Test Run Amperage

Amps

Amps

Amps

28.5

28.3

27.4

99. Drive End Vibration Readings - Inches Per Second

Horizontal

Vertical

Axial

100. Opposite Drive End Vibration Readings - Inches Per Second

Horizontal

Vertical

Axial

101. Ambient Temperature - Fahrenheit

102. Drive End Bearing Temps - Fahrenheit

5 Minutes

10 Minutes

15 Minutes

103. Opposite Drive End Bearing Temps - Fahrenheit

5 Minutes

10 Minutes

15 Minutes

Terrence Holland

Co sign: CW

