



**KEEPING YOUR FACILITY UP TO SPEED**  
— EVERY DAY SINCE 1946 —

LR Motor Shop Repairs

**Job Number 103199**

Prepared for CINTAS (10704)

102 CHAMPS BLVD  
MAUMELLE AR 72113

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

## AC Inspection as Found

CINTAS (10704)  
102 CHAMPS BLVD  
MAUMELLE, AR 72113

FolderID: 103199  
FormID: 20943061

### AC Inspection - Rev. 2

Location: MOTOR SHOP LR  
Serial Number: M65126201-1-02/21-03  
Description: 40HP MARATHON EVAL

Hi-Speed Job Number:	103199
Manufacturer:	Marathon
Product Number:	VVB365THDS4102APL
Serial Number:	M65126201-1-02/21-03
HP/kW:	40 (HP)
RPM:	888 (RPM)
Frame:	365T
Voltage:	230 / 460
Current:	38.5A
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	DP
# of Leads:	9
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	07/09/2024
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	Yes
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	Yes
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: ● 3 - High ● 6 - Good

### Overall Condition

1. Report Date	07/10/2024
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[illegible]

## A large, blue-painted industrial motor or pump unit is mounted on a heavy metal base. The unit has a cylindrical body with a flange at the front. A black cable or hose is connected to the top. The background shows a workshop with various tools and equipment.



Printed on 8/1/2024



4. Describe the Overall Condition of the Equipment as Received

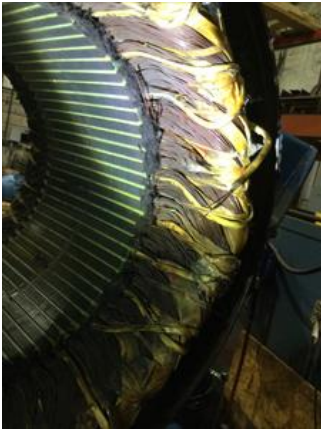
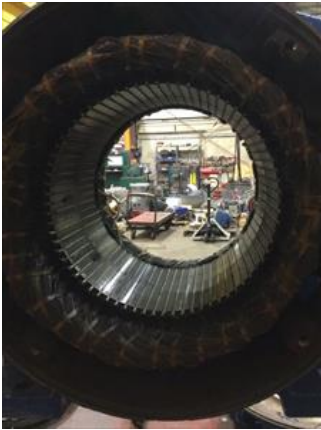
#### Initial Mechanical/Electrical

5. Does Shaft Turn Freely?	(Y) Yes
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	12 Inches
13. Does it have Lugs?, If so what is the Stud Size?	(Yes) Yes
14. Lead Numbers	1-9
15. Frame Condition	pass
16. Fan Condition	(N) NA
17. Broken or Missing Components	none
<b>Initial Electrical Inspection</b>	
18. Insulation Resistance/Megger	Megohms
19. Winding Resistance	
1-2	1-3
2-3	
20. Perform Surge Test	(F) Fail
21. Number of Stator Slots	72

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23. Stator Thermistors/Ohms

24. Stator Overloads/Ohms

**Mechanical Inspection**

25. Drive End Bearing Brand

**NSK**

26. Drive End Bearing Number-

**6314C3**

27. Drive End Bearing Qty.

**1**

28. Drive End Bearing Type

**(Ball) Ball Bearing**

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29. Drive End Lubrication Type

**(Grease) Grease Lubricated**



30. Drive End Bearing Insulation or Grounding Device?

**no**

31. Drive End Wavy Washer/Snap-Ring Other Retention Device?

**none**

32. Drive End Bearing Condition

**chemical**



33. Opposite Drive End Bearing Brand

**NSK**

34. Opposite Drive End Bearing Number-

**6312C3**



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**

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38. Opposite Drive End Bearing Insulation or Grounding Device?

**BRUSH**



39. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?

**wavy washer**

40. Opposite Drive End Bearing Condition

**start of frosting**



41. Drive End Seal

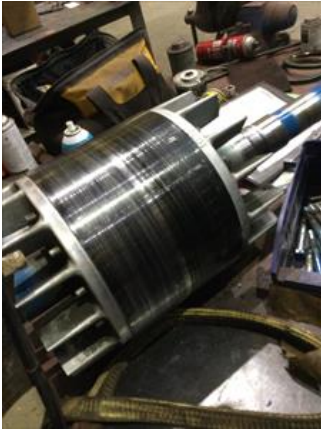
42. Opposite Drive End Seal

## Rotor Inspection



43. Rotor Type/Material

(Squirrel Aluminum) Squirrel  
Cage Aluminum Die Cast



44. Growler Test	(Pass) Pass
45. Number of Rotor Bars	56
46. Rotor Condition	pass



47. List the Parts needed for the Repair Below  
6314C3. 6312C3

48. Signature of Technician that Disassembled Motor RW

#### Mechanical Fits- Rotor

49. Shaft Runout 0.0008 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
	2.7565	2.7565	2.7565
	54.	Drive End Bearing Shaft Fit Condition	(P) Pass
55.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	2.3626	2.3626	2.3626
	56.	Opposite Drive End Bearing Shaft Fit Condition	(P) Pass
57.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
Mechanical Fits- Bearing Housings			
58.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	5.9068	5.9068	5.9068
	Bearing fit pitted		



59.	Drive End - Endbell Bearing Fit Condition		(F) Fail
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60. Opposite Drive End - Endbell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
5.1195	5.1195	5.1195
<div>            Bearing fit off set with the end bell         </div>		



61. Opposite Drive End - Endbell Bearing Fit Condition	(F) Fail	
62. Bearing Cap Condition		
Drive End Bearing Cap	Opposite Drive End Bearing Cap	
pass	pass	
63. End Bell Air Seal Fits		
Drive End Air Seal	Opposite Drive End Air Seal	
64. List Machine Work Needed Below		
<i>De end bell bearing fit and ODE end bell bearing fit</i>		
65. Technician	RW	
		
 Co sign: Crw		

#### Root Cause of Failure

66. Failure locations	<i>Connection and bearing housing fits are bad. Ode of motor had chunks of string in it that hung up in the winding and rotor ripping out one of the pig tails off and shorting the winding</i>	
67. Root cause of failure	<i>Chunks of string between rotor and winding hanging connection shorting motor</i>	

#### Dynamic Balance Report

68. Rotor Weight and Balance Grade		
Rotor Weight	Balance Grade	

## 69. Initial Balance Readings

Drive End

Opposite Drive End



## 70. Final Balance Readings

Drive End

Opposite Drive End



## 71. Technician

Cw

## Rewind

## 72. Core Test Results - Watts loss per Pound

Pre-Burnout

Post Burnout

## 73. Core Hot Spot Test

Pre-Burnout

Post-Burnout

## 74. Post Rewind Electrical Test- Insulation Resistance

Megohms

## 75. Post Rewind Polarization Index

Polarization Index

76. Post Rewind Winding Resistance			
1-2	1-3	2-3	
77. Post Rewind Surge Test			
78. Post Rewind Hi-Pot			micro-amps
79. Technician			
<b>Mechanical Fits- Bearing Housings - Post Repair</b>			
80. Drive End - Endbell Bearing Fit Post Repair			
0 Degrees	60 Degrees	120 Degrees	
81. Opposite Drive End - Endbell Bearing Fit Post Repair			
0 Degrees	60 Degrees	120 Degrees	
5.1183	5.1183	5.1184	



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		
84. End Bell Repair Sign-off			Gary
			
<b>Assembly</b>			
85. QC Check All Parts for Cleanliness Prior to Assembly			Cw
			
86. Photograph All Major Components prior to assembly			

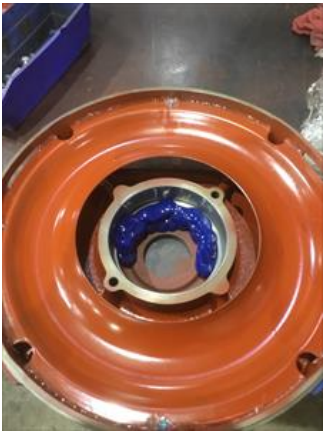
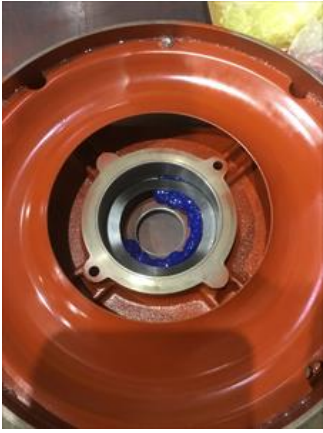


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87. Final Insulation Resistance Test			Megohms
Pass			
88. Assembled Shaft Endplay			inches
89. Assembled Shaft Runout			inches
90. Test Run Voltage			
Volts	Volts	Volts	
Witnessed by RRW			



91. Test Run Amperage		
Amps	Amps	Amps

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92. Drive End Vibration Readings - Inches Per Second		
Horizontal	Vertical	Axial
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		



98. Final Pics and QC Review

Cw

A handwritten signature in black ink, appearing to read "RRW".

Co sign: RRW



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

## AC Random Coil Rewind Report

FolderID: 103199  
FormID: 21021884

**CINTAS (10704)**  
102 CHAMPS BLVD  
MAUMELLE, AR 72113

MOTOR SHOP LR

Priorities Found:

### General

1. Job Number

**103199**



2. Report Date

**07/22/2024**

3. Customer

**Cintas**

### Stator Winding

4. Core Length

"

5. Core ID

6. Back Iron Depth

7. Slot Depth

8. Tooth Width

9. Number of Vents

10. Vent Width

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2.0

11. Before Burnout Core loss
12. Flux Before Burnout
13. Watts before burnout
14. Watts loss per lb. before burnout
15. After Burnout Core Loss
16. Flux After burnout
17. Watts After Burnout
18. Watts loss per lb After Burnout
19. Core Iron Condition
20. RTD's
21. RTD's Reading
22. Motor Heaters
23. Heater Qty.
24. Heater Voltage
25. Heater Wattage
26. Thermistors
27. Number of Poles
28. Slots
29. Number of Coils
30. Coil Weight
31. Lead Markings
32. Grouping
33. Multiple Wires
34. Wire Size
35. Turns per coil
36. Pitch 1 to:
37. Connection
38. Lead Length
39. Lead Size
40. Number of Leads
41. Megger Reading After Rewind
42. Coil Machine Slot
43. Coil Machine Tip
44. Coil Machine Pitch
45. Hi Pot Reading After Rewind
46. Surge Pattern After Rewind
47. Service Technician





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