



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

LR Motor Shop Repairs

Job Number 103356

Prepared for Paul Morrell Formalwear

120 S Victory St
Little Rock AR 72201

Table of Contents

AC Inspection as Found - *LITTLE ROCK MOTOR
SHOP*

AC Inspection - Rev. 2: *E9041.51*

1.0

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Printed on 9/17/2024

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Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
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AC Inspection as Found

Paul Morrell Formalwear

120 S Victory St
Little Rock, AR 72201

FolderID: 103356
FormID: 21278235

AC Inspection - Rev. 2

Location: LITTLE ROCK MOTOR SHOP

Serial Number: E9041.51

Description: 3HP BROOK HANSEN

Hi-Speed Job Number: 103356

Manufacturer: Other

Serial Number: E9041.51

HP/kW: 3 (HP)

RPM: 3480 (RPM)

Frame: W-DA182TC-M

Voltage: 230 / 460

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.15

Enclosure: TEFC

of Leads: 9

J-box Included: Half

Coupling/Sheave: Fan

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final

Rewind: No

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 ● 9 - Good

Overall Condition

1. Report Date

09/17/2024

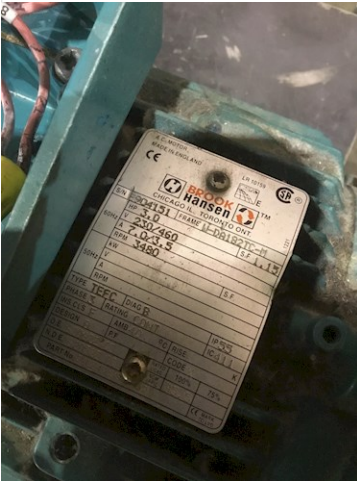
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1.0

2. Nameplate Picture



3. Photos of all six sides of the machine.

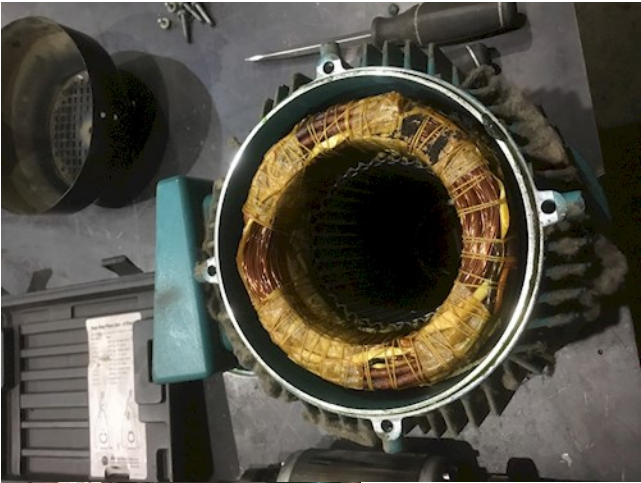




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4. Describe the Overall Condition of the Equipment as Received		
Dirty		
5. Distance from the end of the shaft to the Coupling/Sheave		inches
Unattached		
6. Report Date [COPY]		
Initial Mechanical/Electrical		
7. Does Shaft Turn Freely?		(N) No
8. Does the shaft require T.I.R in Lathe to identify additional repairs?		(No) No

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9. Does Shaft Have Visible Damage?

(Yes) Yes

☒ Shaft is damaged where the air gap is in end bell



10. Assembled Shaft Runout

Inches

11. Assembled Shaft End Play

inches

12. Air Gap Variation <10%

☒ 13. Lead Condition

(P) Pass

14. Lead Length

8 Inches

☒ 15. Does it have Lugs?, If so what is the Stud Size?

(No) No

16. Lead Numbers

1-9

17. Frame Condition

☒ 18. Fan Condition

(P) Pass

☒ 19. Broken or Missing Components

j-box cover and bolts for cover
and fan cover

Initial Electrical Inspection

20. Insulation Resistance/Megger

Megohms

Coil 1 (Ohms)	1.585	Corr: 1.6...
Coil 2 (Ohms)	1.559	Corr: 1.5...
Coil 3 (Ohms)	1.542	Corr: 1.5...
Megohm Stat...	PASS	No
Volts (V)	501	
I(μA)	0.0704	
Resist	7116	
At 40°C	1921	
PI Status	No Test	No
Volts (V)		
Nameplate	Application	Result

21. Winding Resistance

1-2

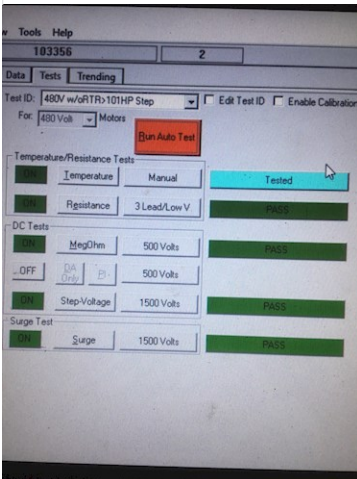
1-3

2-3

Test Time	3:12:51 PM	3:00:45 PM
Resist Status	PASS	No Test
Bal L1 (Ohms)		
Bal L2 (Ohms)		
Bal L3 (Ohms)		
L1-L2 (Ohms)	1.049 Corr: 1.0...	
L2-L3 (Ohms)	1.041 Corr: 1.0...	
L3-L1 (Ohms)	1.035 Corr: 1.0...	
Max Delta R %	1.396	
Coil 1 (Ohms)	1.585 Corr: 1.6...	
Coil 2 (Ohms)	1.559 Corr: 1.5...	
Coil 3 (Ohms)	1.542 Corr: 1.5...	
Megohm Stat...	PASS	No Test
Voltage (V)	501	

22. Perform Surge Test

(P) Pass



23. Number of Stator Slots

36

24. Stator Condition

pass

25. Stator Thermistors/Ohms

26. Stator Overloads/Ohms

Mechanical Inspection

27. Drive End Bearing Brand

28. Drive End Bearing Number-

6206

29. Drive End Bearing Qty.

1

30. Drive End Bearing Type

(Ball) Ball Bearing

31. Drive End Lubrication Type

(Grease) Grease Lubricated

32. Drive End Bearing Insulation or Grounding Device?

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

wavy washer

34. Drive End Bearing Condition

Contamination



35. Opposite Drive End Bearing Brand	NSK
36. Opposite Drive End Bearing Number-	6205
37. Opposite Drive End Bearing Qty.	1
38. Opposite Drive End Bearing Type	(Ball) Ball Bearing
39. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
40. Opposite Drive End Bearing Insulation or Grounding Device?	
41. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring
42. Opposite Drive End Bearing Condition	

Wear



43. Drive End Seal	
30-42-7 TTO	
44. Opposite Drive End Seal	25-37-7 NTK

Rotor Inspection

45. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
46. Growler Test	(Pass) Pass
47. Number of Rotor Bars	
48. Rotor Condition	pass

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49. List the Parts needed for the Repair Below

6206
6205
30-42-7 TTO seal
25-37-7 NTK seal
6206 sleeve

50. Signature of Technician that Disassembled Motor

Cw



Mechanical Fits- Rotor

51. Shaft Runout inches

52. Rotor Runout

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

53. Coupling Fit Closest to Bearing Housing

0 Degrees

90 Degrees

120 Degrees

54. Coupling Fit Closest to the end of the Shaft

0 Degrees

60 Degrees

120 Degrees

55. Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

1.1812

1.1812

1.1812

56. Drive End Bearing Shaft Fit Condition

(P) Pass

57. Opposite Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

0.9843

0.9844000000000001

0.9844000000000001

58. Opposite Drive End Bearing Shaft Fit Condition


(P) Pass

59. Shaft Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

Mechanical Fits- Bearing Housings

60. Drive End - Endbell Bearing Fit			
0 Degrees	60 Degrees	120 Degrees	
<div> <div></div> <div>Excessive wear</div> </div>			
			
61. Drive End - Endbell Bearing Fit Condition			(F) Fail
62. Opposite Drive End - Endbell Bearing Fit			
0 Degrees	60 Degrees	120 Degrees	
2.0472	2.0472	2.0471	
63. Opposite Drive End - Endbell Bearing Fit Condition			(P) Pass
64. Bearing Cap Condition			
Drive End Bearing Cap	Opposite Drive End Bearing Cap		
65. End Bell Air Seal Fits			
Drive End Air Seal	Opposite Drive End Air Seal		
66. List Machine Work Needed Below			
DE end bell bearing fit and DE shaft where shaft goes through end bell air gap			



Polished surface.
Gary

67. Technician	Cw
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Chen

Co sign: RRW

Root Cause of Failure

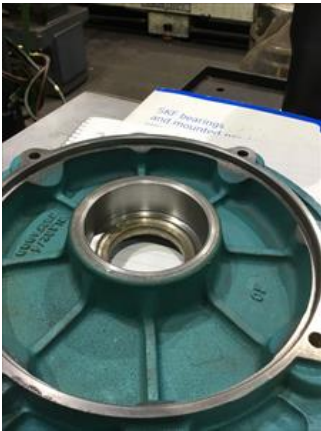
68. Failure locations
Bearings and DE end bell bearing fit
69. Root cause of failure
DE bearing locked up spinning in fit wearing fit out

Dynamic Balance Report

70. Rotor Weight and Balance Grade
- | Rotor Weight | Balance Grade |
|--------------|---------------|
| | |
71. Initial Balance Readings
- | Drive End | Opposite Drive End |
|-----------|--------------------|
| | |
72. Final Balance Readings
- | Drive End | Opposite Drive End |
|-----------|--------------------|
| | |
73. Technician

Mechanical Fits- Bearing Housings - Post Repair

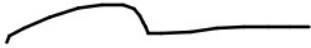
74. Drive End - Endbell Bearing Fit Post Repair
- | 0 Degrees | 60 Degrees | 120 Degrees |
|-----------|------------|-------------|
| 2.4409 | 2.4409 | 2.441 |



75. Opposite Drive End - Endbell Bearing Fit Post Repair
- | 0 Degrees | 60 Degrees | 120 Degrees |
|-----------|------------|-------------|
| | | |
76. Bearing Cap Condition Post Repair
- | Drive End Bearing Cap | Opposite Drive End Bearing Cap |
|-----------------------|--------------------------------|
| | |
77. End Bell Air Seal Fits Post Repair
- | Drive End Air Seal | Opposite Drive End Air Seal |
|--------------------|-----------------------------|
| | |

78. End Bell Repair Sign-off

Gary



Assembly

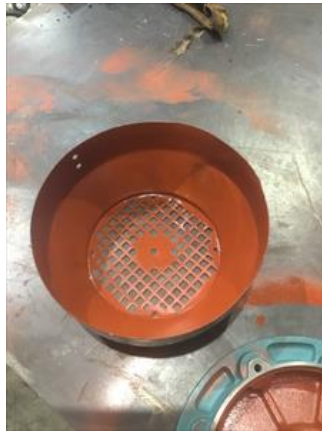
79. QC Check All Parts for Cleanliness Prior to Assembly

Cw



80. Photograph All Major Components prior to assembly





81. Final Insulation Resistance Test	Megohms		
82. Assembled Shaft Endplay	inches		
83. Assembled Shaft Runout	inches		
84. Test Run Voltage			
Volts	Volts	Volts	Volts
Witnessed by RRW			



85. Test Run Amperage			
Amps	Amps	Amps	Amps

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86. Drive End Vibration Readings - Inches Per Second		
Horizontal	Vertical	Axial
87. Opposite Drive End Vibration Readings - Inches Per Second		
Horizontal	Vertical	Axial
88. Ambient Temperature - Fahrenheit		
89. Drive End Bearing Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes
90. Opposite Drive End Bearing Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes

91. Document Final Condition with Pictures after paint



92. Final Pics and QC Review

Cw

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

Co sign: RRW



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