



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

LR Motor Shop Repairs

**Job Number 103626**

Prepared for Amcor (010764)

3033 East 16th St.  
Russellville AR 72802

# Table of Contents

AC Inspection as Found - *LITTLE ROCK MOTOR  
SHOP*

AC Inspection - Rev. 2: 8299041

1.0

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

## AC Inspection as Found

**Amcor (010764)**  
3033 East 16th St.  
Russellville, AR 72802

FolderID: 103626  
FormID: 21959664

### AC Inspection - Rev. 2

**Location:** LITTLE ROCK MOTOR SHOP

**Serial Number:** 8299041

**Description:** 2.2KW HEBEM W/ NASH PUMP

**Hi-Speed Job Number:** 103626

**Manufacturer:** Other

**Product Number:** M: 1TT0G1ACCCNE09C000

**Spec/ID #:** PART: 101821084022

**Serial Number:** 8299041

**HP/kW:** 2.2 (kW)

**RPM:** 1770 (RPM)

**Frame:** NA

**Voltage:** 230 / 460

**Current:** 7.44/3.72 (Amps)

**Phase:** Three

**Hz:** 60 (Hz)

**Enclosure:** TEFC

**# of Leads:** 9

**J-box Included:** Complete

**Coupling/Sheave:** Impeller

**Date Received:** 10/15/2024

**Bearing RTDs:** No

**Stator RTDs:** No

**Repair Stage:** Final

**Rewind:** No

**Shaft Machined Fit Repairs  
Required:** No

**Bearing Housing Machined  
Fit Repairs Required:** No

**Heaters:** No

**Winding Type :** Random Wound

**Bearing Type:** Rolling Element

Priorities Found: ● 2 - High ● 16 - Good

### Overall Condition

1. Report Date

10/17/2024

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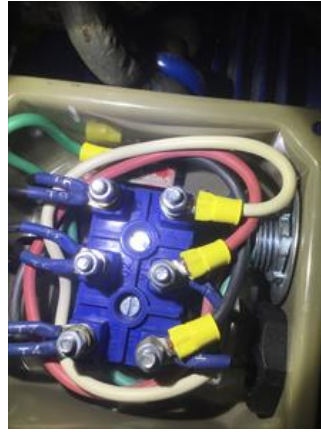
1.0

## 2. Nameplate Picture



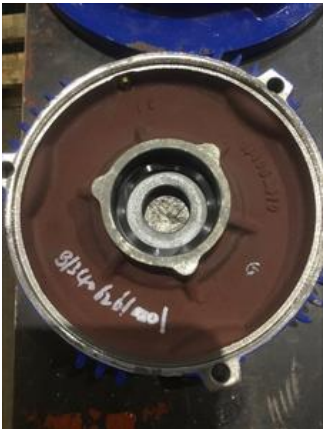
## 3. Photos of all six sides of the machine.







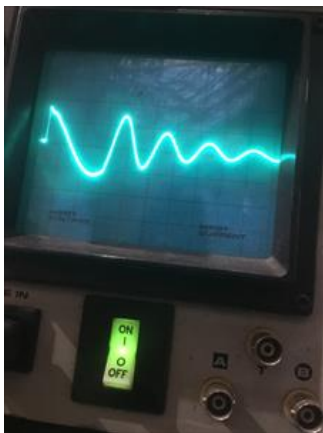




<span style="color: red;">●</span>	4. Describe the Overall Condition of the Equipment as Received <i>Pump was disassembled and parts are in a box</i>	
	5. Distance from the end of the shaft to the Coupling/Sheave	<b>0 inches</b>
<b>Initial Mechanical/Electrical</b>		
<span style="color: green;">●</span>	6. Does Shaft Turn Freely?	<b>(Y) Yes</b>
<span style="color: green;">●</span>	7. Does the shaft require T.I.R in Lathe to identify additional repairs?	<b>(No) No</b>
	8. Does Shaft Have Visible Damage?	<b>(No) No</b>
<span style="color: red;">●</span>	9. Assembled Shaft Runout	<b>0 Inches</b>
	10. Assembled Shaft End Play	<b>0 inches</b>

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11. Air Gap Variation <10%	0
12. Lead Condition	(P) Pass
13. Lead Length	6 Inches
14. Does it have Lugs?, If so what is the Stud Size?	
Yes	
15. Lead Numbers	T1-T9
16. Frame Condition	good
17. Fan Condition	(P) Pass
18. Broken or Missing Components	none
<b>Initial Electrical Inspection</b>	
19. Insulation Resistance/Megger	185.7 Gigohms
20. Winding Resistance	
1-2	1-3 2-3
21. Perform Surge Test	(P) Pass



22. Number of Stator Slots	36
23. Stator Condition	
24. Stator Thermistors/Ohms	na
25. Stator Overloads/Ohms	na
<b>Mechanical Inspection</b>	
26. Drive End Bearing Brand	C&U
27. Drive End Bearing Number-	6206
28. Drive End Bearing Qty.	1
29. Drive End Bearing Type	(Ball) Ball Bearing
30. Drive End Lubrication Type	(Grease) Grease Lubricated
31. Drive End Bearing Insulation or Grounding Device?	none
32. Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring



## 33. Drive End Bearing Condition

Wear



34. Opposite Drive End Bearing Brand	C&U
35. Opposite Drive End Bearing Number-	6206
36. Opposite Drive End Bearing Qty.	1
37. Opposite Drive End Bearing Type	(Ball) Ball Bearing
38. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
39. Opposite Drive End Bearing Insulation or Grounding Device?	na
40. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer
41. Opposite Drive End Bearing Condition	

Wear



## 42. Drive End Seal

Mechanical pump seal

43. Opposite Drive End Seal	na
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## Rotor Inspection

44. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
45. Growler Test	(Pass) Pass
46. Number of Rotor Bars	32
47. Rotor Condition	good

## 48. List the Parts needed for the Repair Below

6206x2  
Pump seal kit

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49. Signature of Technician that Disassembled Motor

Cw


**Mechanical Fits- Rotor**50. Shaft Runout **0 inches**

51. Rotor Runout

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

**0****0****0**

52. Coupling Fit Closest to Bearing Housing

0 Degrees

90 Degrees

120 Degrees

**0****0****0**

53. Coupling Fit Closest to the end of the Shaft

0 Degrees

60 Degrees

120 Degrees

**0****0****0**

54. Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

**1.1815****1.1814****1.1814**

● 55. Drive End Bearing Shaft Fit Condition

**(P) Pass**

56. Opposite Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

**1.1813****1.1813****1.1813**

● 57. Opposite Drive End Bearing Shaft Fit Condition

**(P) Pass**

58. Shaft Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

**ok****ok****Mechanical Fits- Bearing Housings**

59. Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

**2.4416****2.4416****2.4416**

● 60. Drive End - Endbell Bearing Fit Condition

**(P) Pass**

61. Opposite Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

**2.4417****2.4416****2.4417**

● 62. Opposite Drive End - Endbell Bearing Fit Condition

**(P) Pass**

● 63. Bearing Cap Condition

Drive End Bearing Cap

Opposite Drive End Bearing Cap

**ok****na**

64. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

**ok****ok**

65. List Machine Work Needed Below

*None*

66. Technician

Cw

Co sign: DM

**Root Cause of Failure**

67. Failure locations

*Bearings and pump seal*

68. Root cause of failure

*Wear***Dynamic Balance Report**

69. Rotor Weight and Balance Grade

Rotor Weight

Balance Grade

0

1.0



70. Initial Balance Readings

Drive End

Opposite Drive End

.11

.20

71. Final Balance Readings

Drive End

Opposite Drive End

.11

.20

72. Technician

David Maclin

**Assembly**

73. QC Check All Parts for Cleanliness Prior to Assembly

David Maclin

74. Photograph All Major Components prior to assembly

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75. Final Insulation Resistance Test	2000 Megohms		
76. Assembled Shaft Endplay	0 inches		
77. Assembled Shaft Runout	0 inches		
78. Test Run Voltage			
Volts	Volts	Volts	
454	453	454	



79.	Test Run Amperage		
	Amps	Amps	Amps
	1.9	2	2
80.	Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
	0	0	0
81.	Opposite Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
	0	0	0
82.	Ambient Temperature - Fahrenheit		74
83.	Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
	0	0	0
84.	Opposite Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
	0	0	0

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85. Document Final Condition with Pictures after paint

looks new



86. Final Pics and QC Review

David Maclin

Witnessed by CW



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