



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

Motor Shop Repairs

**Job Number 100066**

Prepared for Lexicon (10257)

8900 Fouche Dam Pike  
Little Rock AR

# Table of Contents

AC Recondition As Found - *SHOP*

AC Recondition - Rev. 2: 823471B-3

1.0

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## AC Recondition As Found

**Lexicon (10257)**  
8900 Fouche Dam Pike  
Little Rock, AR

FolderID: 100066  
FormID: 14105530



### AC Recondition - Rev. 2

Location: SHOP

Serial Number: 823471B-3

Description: 4HP REULAND 1800/53RPM WEO-215/H400

Hi-Speed Job Number: 100066

Manufacturer: Other

Product Number: 13273

Serial Number: 823471B-3

HP/kW: 4 (HP)

RPM: 1800 (RPM)

Frame: WEO-215/H400

Voltage: 230 / 460

Current: 10.6/5.3

Phase: Three

Hz: 60 (Hz)

Enclosure: TENV

J-box Included: None

Coupling/Sheave: None

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Teardown Inspection

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found: ● 3 - High ● 5 - Good

### Overall Condition

1. Report Date

07/19/2022



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## 2. Nameplate Picture



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





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   | 0.001 Inches  |
| 8. Assembled Shaft End Play | 0.0005 inches |
| 9. Air Gap Variation <10%   |               |
| 10. Lead Condition          | (P) Pass      |



- |                 |           |
|-----------------|-----------|
| 11. Lead Length | 12 Inches |
|-----------------|-----------|

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12. Frame Condition



13. Fan Condition

14. Broken or Missing Components

**Initial Electrical Inspection**

15. Insulation Resistance/Megger **2000 Megohms**

16. Winding Resistance

1-2

1-3

2-3

17. Perform Surge Test **(P) Pass**

18. Stator Condition

**Mechanical Inspection**

19. Drive End Bearing Number- **6306a rsr**



20. Drive End Bearing Qty. **1**

21. Drive End Bearing Type **(Ball) Ball Bearing**

22. Drive End Lubrication Type **(Grease) Grease Lubricated**

23. Drive End Bearing Insulation or Grounding Device?

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

25. Drive End Bearing Condition **worn**





27. Opposite Drive End Bearing Qty.	1
28. Opposite Drive End Bearing Type	(Ball) Ball Bearing
29. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
30. Opposite Drive End Bearing Insulation or Grounding Device?	
31. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	
32. Opposite Drive End Bearing Condition	worn
33. Drive End Seal	
34. Opposite Drive End Seal	

#### Rotor Inspection

35. Rotor Type/Material


Wound rotor



36. Growler Test	
37. Number of Rotor Bars	24
38. Rotor Condition	fail
Needs rewind	
39. List the Parts needed for the Repair Below	
2-6308 rsr bearings Rewind rotor	

40. Signature of Technician that Disassembled Motor

Trevor Hall



### Mechanical Fits- Rotor

41. Shaft Runout **0.001 inches**

42. Rotor Runout

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

43. Coupling Fit Closest to Bearing Housing

0 Degrees

90 Degrees

120 Degrees

44. Coupling Fit Closest to the end of the Shaft

0 Degrees

60 Degrees

120 Degrees

45. Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

**1.1806**

**1.1806**

**1.1806**



46. Drive End Bearing Shaft Fit Condition

**(F) Fail**

 **Undersized**



## 47. Opposite Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

1.1805

1.1806

1.1806



## 48. Opposite Drive End Bearing Shaft Fit Condition (F) Fail

Undersized

## 49. Shaft Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

## Mechanical Fits- Bearing Housings

## 50. Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

2.8353

2.8353

2.8353

## 51. Drive End - Endbell Bearing Fit Condition (P) Pass

## 52. Opposite Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

2.8346

2.8346

2.8346

Tight

## 53. Opposite Drive End - Endbell Bearing Fit Condition (P) Pass

## 54. Bearing Cap Condition

Drive End Bearing Cap

Opposite Drive End Bearing Cap

## 55. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

## 56. List Machine Work Needed Below

Machine both shaft bearing fits

## 57. Technician

Trevor Hall

## Root Cause of Failure

## 58. Failure locations

*Rotor needs rewound and both bearing fits on shaft need machined*

59. Root cause of failure



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