



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

Motor Shop Repairs

Job Number 99960

Prepared for Lexicon (10257)

8900 Fouche Dam Pike
Little Rock AR

Table of Contents

AC Recondition As Found - *SHOP*

AC Recondition - Rev. 2: *GST05-2M VBR 090C12 1616*

1.0

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Printed on 6/23/2022

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7030 Ryburn Dr
Millington, Tn 38053
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AC Recondition As Found


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

FolderID: 99960
FormID: 13900928

AC Recondition - Rev. 2

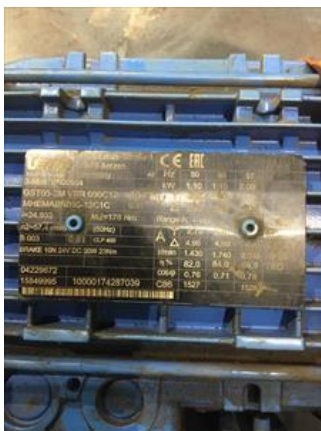
Location: SHOP
Serial Number: GST05-2M VBR 090C12 1616
Description: 1.1KW LENZE 1800RPM BRAKE MOTOR

Hi-Speed Job Number:	99960
Manufacturer:	Other
Product Number:	EN60034
Serial Number:	GST05-2M VBR 090C12 1616
HP/kW:	1.1 (kW)
RPM:	1740 (RPM)
Voltage:	230 / 460
Current:	2.3/4.0
Phase:	Three
Hz:	60 (Hz)
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	Brake
Date Received:	06/22/2022
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found:  **8 - Good**

Overall Condition

1. Report Date
2. Nameplate Picture



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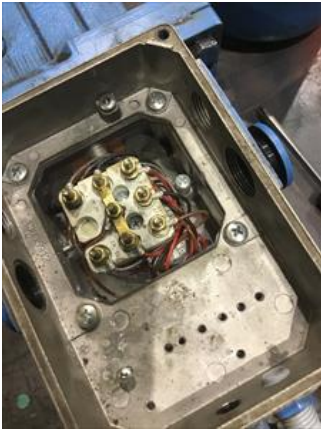


3.	Describe the Overall Condition of the Equipment as Received	
4.	Distance from the end of the shaft to the Coupling/Sheave	
Initial Mechanical/Electrical		
● 5.	Does Shaft Turn Freely?	(Yes) Yes
6.	Does Shaft Have Visible Damage?	(No) No
7.	Assembled Shaft Runout	
8.	Assembled Shaft End Play	
9.	Air Gap Variation <10%	

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10. Lead Condition

(P) Pass



11. Lead Length

6 Inches

12. Frame Condition

pass

13. Fan Condition

(P) Pass



14. Broken or Missing Components

Initial Electrical Inspection

15. Insulation Resistance/Megger

15040 Megohms

16. Winding Resistance

1-2

1-3

2-3

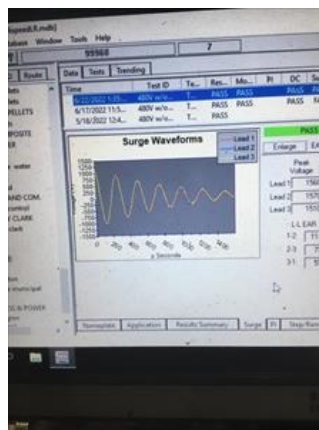
9.03

9.09

9.09

17. Perform Surge Test

(P) Pass



18. Stator Condition

wash and bake



Mechanical Inspection

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19. Drive End Bearing Number-

6206ZZ



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?	no



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

snap ring



25. Drive End Bearing Condition



26. Opposite Drive End Bearing Number-

6205ZZ



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?

no

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

wavy washer



32. Opposite Drive End Bearing Condition



33. Drive End Seal

pass



34. Opposite Drive End Seal

na

Rotor Inspection		
35. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
36. Growler Test	(Pass) Pass	
37. Number of Rotor Bars	46	
38. Rotor Condition	pass	



39. List the Parts needed for the Repair Below

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40. Signature of Technician that Disassembled Motor

RW



Mechanical Fits- Rotor

41. Shaft Runout

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

1.1815

1.1815

1.1815



46. Drive End Bearing Shaft Fit Condition

(P) Pass

47. Opposite Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

0.9844000000000001

0.9844000000000001

0.9844000000000001



48. Opposite Drive End Bearing Shaft Fit Condition

(P) Pass

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

2.4411

2.4411

2.4411



51. Drive End - Endbell Bearing Fit Condition

(P) Pass

52. Opposite Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

2.0474

2.0474

2.0474



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

57. Technician

RW

Root Cause of Failure

58. Failure locations

Inside of gear box

59. Root cause of failure

Output shaft inside bearing housing cap bracket broken witch got shavings in bearing.



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