



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

AC Inspection as Found

Blue Scope
1836 Dock St
Memphis, TN 38113

FolderID: 153889
FormID: 21904757



AC Inspection - Rev. 2

Location: Maintenance Shop

Serial Number: 70374806

Description: 10 Hp

Hi-Speed Job Number: 153889

Manufacturer: Other

Serial Number: 70374806

HP/kW: 10 (HP)

RPM: 3250 (RPM)

Frame: IMB14

Voltage: 460

Current: 2.20 (Amps)

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.15

Enclosure: TEFC

of Leads: 6

J-box Included: Complete

Coupling/Sheave: None

Date Received: 10/10/2024

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Teardown Inspection

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: ● 5 - High ● 1 - Medium ● 48 - Good

Overall Condition



● 1. Report Date

10/10/2024

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

Printed on 10/14/2024

Powered by [INSPECTALL](#)

Page 1 of 7

2. Nameplate Picture

P2



3. Photos of all six sides of the machine.

P3



Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.



4.	Describe the Overall Condition of the Equipment as Received	
	<i>Good</i>	
5.	Report Date [COPY]	
Initial Mechanical/Electrical		
6.	Does Shaft Turn Freely?	(Y) Yes
7.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
8.	Does Shaft Have Visible Damage?	(No) No
9.	Assembled Shaft Runout	0.002 Inches
10.	Assembled Shaft End Play	0.111 inches
11.	Air Gap Variation <10%	
12.	Lead Condition	(P) Pass
13.	Lead Length	3 Inches
14.	Does it have Lugs?, If so what is the Stud Size?	(Yes) Yes
	1/8	
15.	Lead Numbers	1-6
16.	Frame Condition	good
17.	Fan Condition	(N) NA
18.	Broken or Missing Components	none
Initial Electrical Inspection		



Low



Hi speed

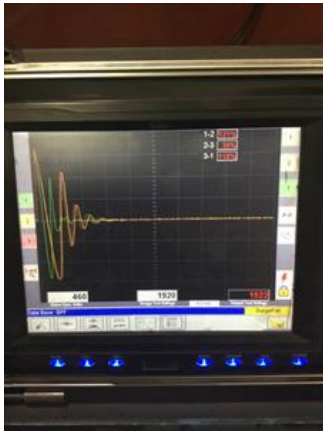
1-2

1-3

2-3



Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.



22. Number of Stator Slots
23. Stator Condition
24. Stator Thermistors/Ohms
25. Stator Overloads/Ohms

Mechanical Inspection

26. Drive End Bearing Brand **koyo**
27. Drive End Bearing Number- **305**
28. Drive End Bearing Qty. **1**
29. Drive End Bearing Type **(Roller) Roller 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? **none**
33. Drive End Bearing Condition **good**
34. Opposite Drive End Bearing Brand **koyo**
35. Opposite Drive End Bearing Number- **305**
36. Opposite Drive End Bearing Qty. **1**
37. Opposite Drive End Bearing Type **(Roller) Roller Bearing**
38. Opposite Drive End Lubrication Type **(Grease) Grease Lubricated**
39. Opposite Drive End Bearing Insulation or Grounding Device? **none**
40. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device? **none**
41. Opposite Drive End Bearing Condition **good**
42. Drive End Seal **Tto 1223**
35-62-6 (2)
43. Opposite Drive End Seal **Tto f 1223**
35-62-6

Rotor Inspection

44. Rotor Type/Material **(Squirrel Aluminum) Squirrel
Cage Aluminum Die Cast**
45. Growler Test **(Pass) Pass**
46. Number of Rotor Bars **26**
47. Rotor Condition **some wear on iron**
48. List the Parts needed for the Repair Below
35-62-6 (3)
Koyo 305 bearings (2)

49. Signature of Technician that Disassembled Motor

James Valentine


Mechanical Fits- Rotor50. Shaft Runout inches

51. Rotor Runout

Drive End Bearing Fit

Rotor Body


Opposite Drive End Bearing

52. Coupling Fit Closest to Bearing Housing

0 Degrees

90 Degrees

120 Degrees


 N/a

 53. Coupling Fit Closest to the end of the Shaft

0 Degrees

60 Degrees

120 Degrees

1.1025**1.1025****1.1025**
 54. Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

1.377**1.377****1.377**
 55. Drive End Bearing Shaft Fit Condition
(P) Pass
 56. Opposite Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

1.377**1.377****0.377**
 57. Opposite Drive End Bearing Shaft Fit Condition
(P) Pass

58. Shaft Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

Mechanical Fits- Bearing Housings
 59. Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees


120 Degrees

2.441**2.441****2.441**
 60. Drive End - Endbell Bearing Fit Condition
(P) Pass
 61. Opposite Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

2.441**2.441****2.441**
 62. Opposite Drive End - Endbell Bearing Fit Condition
(P) Pass

63. Bearing Cap Condition

Drive End Bearing Cap

Opposite Drive End Bearing Cap

 N/a

64. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

 65. List Machine Work Needed Below
None

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

66. Technician

James Valentine



Root Cause of Failure

67. Failure locations

Winding. Needs rewind. And recondition

68. Root cause of failure

N/a