



AC Inspection as Found

American Kraft Paper

1701 Jefferson Parkway

White Hall, AR 71602

FolderID: 104436

FormID: 24073137

AC Inspection - Rev. 2

Location: LR MOTOR SHOP

Serial Number:

Description: 125 HP
NAMEPLATE NOT READABLE FOR SOME
SPECS

Hi-Speed Job Number: 104436

Manufacturer: Toshiba

Product Number: B1258FLF4BD

Serial Number: AB02797-03

HP/kW: 125 (HP)

RPM: 1175 (RPM)

Frame: 445T

Voltage: 460

Current: 152 (Amps)

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.1

Enclosure: TEFC

of Leads: 6

J-box Included: None

Coupling/Sheave: None

Date Received: 07/18/2025

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final

Rewind: Yes

Shaft Machined Fit Repairs
Required: No

Bearing Housing Machined
Fit Repairs Required: Yes

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

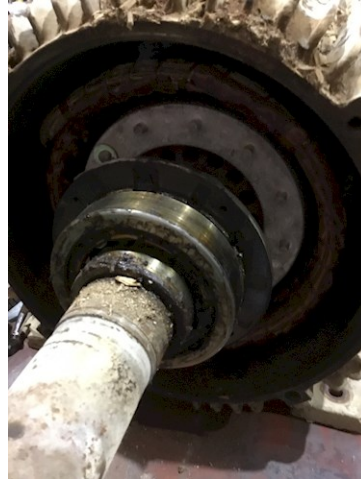
Priorities Found: ● 2 - High ● 15 - Good

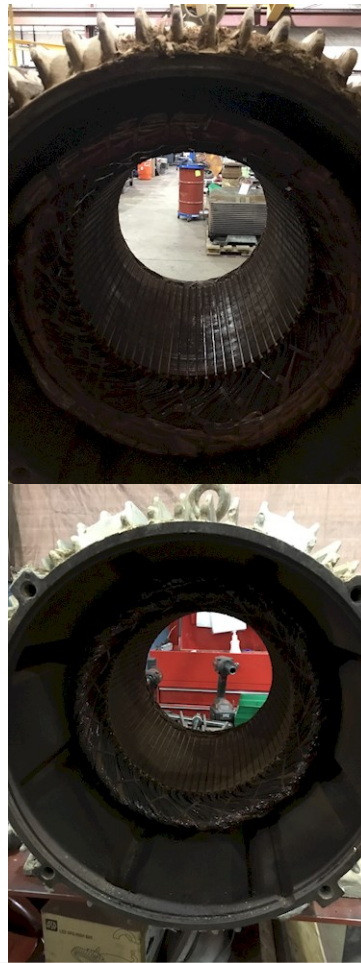
Overall Condition



- | | |
|----------------------|------------|
| 1. Report Date | 04/16/2025 |
| 2. Nameplate Picture | P37 |









3.	Photos of all six sides of the machine.	
4.	Describe the Overall Condition of the Equipment as Received <i>Dirty</i>	
5.	Is this a UL Listed Motor	(No) No
6.	Is the motor water cooled or can be pressure checked before teardown	(No) No
Initial Mechanical/Electrical		
7.	Does Shaft Turn Freely?	(Y) Yes
8.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
9.	Does Shaft Have Visible Damage?	(No) No
10.	Assembled Shaft Runout	0 Inches
11.	Assembled Shaft End Play	0 inches
12.	Air Gap Variation <10%	ok
13.	Lead Condition	(P) Pass
14.	Lead Length	12 Inches
15.	Does it have Lugs?, If so what is the Stud Size? <i>3/8</i>	(Yes) Yes
16.	Lead Numbers	1-6
17.	Are the Leads insulated with Chico or other material	(No) No
18.	Frame Condition	good
19.	Fan Condition	(P) Pass
20.	Does motor have internal fan?	(Yes) Yes
21.	Broken or Missing Components	none
Initial Electrical Inspection		

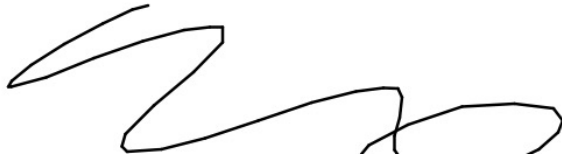
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22.	Insulation Resistance/Megger	0 Megohms
23.	Winding Resistance	
	1-2	1-3 2-3
24.	Perform Surge Test	(F) Fail
25.	Number of Stator Slots	72
26.	Stator Condition	rewind
27.	Stator Thermistors/Ohms	
28.	Stator Overloads/Ohms	
Mechanical Inspection		
29.	Drive End Bearing Brand	NTN P12
<div style="display: flex; justify-content: space-around;">   </div>		
30.	Drive End Bearing Number-	NU318
31.	Drive End Bearing Qty.	1
32.	Drive End Bearing Type	(Roller) Roller Bearing
33.	Drive End Lubrication Type	(Grease) Grease Lubricated
34.	Drive End Bearing Insulation or Grounding Device?	none
35.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	none
36.	Drive End Bearing Condition	normal wear
37.	Opposite Drive End Bearing Brand	NTN
38.	Opposite Drive End Bearing Number-	6318
39.	Opposite Drive End Bearing Qty.	1
40.	Opposite Drive End Bearing Type	(Ball) Ball Bearing
41.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
42.	Opposite Drive End Bearing Insulation or Grounding Device?	none
43.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring
44.	Opposite Drive End Bearing Condition	fatigue
45.	Drive End Seal	
46.	Opposite Drive End Seal	
Rotor Inspection		
47.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
48.	Growler Test	(Pass) Pass
49.	Number of Rotor Bars	55
50.	Rotor Condition	good
51.	List the Parts needed for the Repair Below	
	NU318, 6318 2Z	

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52. Signature of Technician that Disassembled Motor

David Maclin


Mechanical Fits- Rotor53. Shaft Runout **0 inches**

54. Rotor Runout

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

0**0****0**

● 55. Coupling Fit Closest to Bearing Housing

0 Degrees

90 Degrees

120 Degrees

56. Coupling Fit Closest to the end of the Shaft

0 Degrees

60 Degrees

120 Degrees

57. Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

3.5451**3.5449****3.5441**

● 58. Drive End Bearing Shaft Fit Condition

(P) Pass

59. Opposite Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

3.544**3.544****3.544**

● 60. Opposite Drive End Bearing Shaft Fit Condition

(P) Pass

61. Shaft Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

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

62. Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

7.481**7.4809****7.481**

● 63. Drive End - Endbell Bearing Fit Condition

(P) Pass

64. Opposite Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

7.4822**7.4823****7.4821**

● 65. Opposite Drive End - Endbell Bearing Fit Condition

(F) Fail

66. Bearing Cap Condition

Drive End Bearing Cap

Opposite Drive End Bearing Cap

ok**ok**

67. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

68. List Machine Work Needed Below

Sleeve ODE end bell bearing fit



Root Cause of Failure

70. Failure locations

Stator

71. Root cause of failure

Grounded

Dynamic Balance Report



72. Rotor Weight and Balance Grade

Rotor Weight

Balance Grade

73. Initial Balance Readings

Drive End

Opposite Drive End

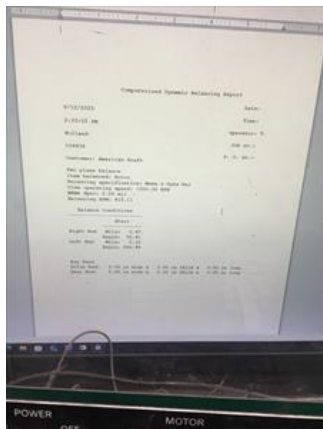
*See below.*

74. Final Balance Readings

Drive End

Opposite Drive End

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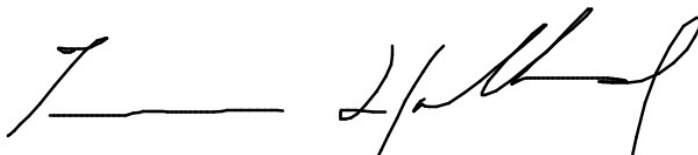


Rotor

Rotor and fan

75. Technician

Terrence Holland





Rewind

76. Core Test Results - Watts loss per Pound

Pre-Burnout

Post Burnout

77. Core Hot Spot Test		
Pre-Burnout	Post-Burnout	
78. Post Rewind Electrical Test- Insulation Resistance	Megohms	
79. Post Rewind Polarization Index	Polarization Index	
80. Post Rewind Winding Resistance		
1-2	1-3	2-3
81. Post Rewind Surge Test		
82. Post Rewind Hi-Pot	micro-amps	
83. Technician		
Mechanical Fits- Bearing Housings - Post Repair		
84. Drive End - Endbell Bearing Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
85. Opposite Drive End - Endbell Bearing Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
7.4808	7.4808	7.4808
		
86. Bearing Cap Condition Post Repair		
Drive End Bearing Cap	Opposite Drive End Bearing Cap	
87. End Bell Air Seal Fits Post Repair		
Drive End Air Seal	Opposite Drive End Air Seal	
88. End Bell Repair Sign-off	RW	
		
Assembly		



See item below







91. Final Insulation Resistance Test

87 Gigohms

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92. Assembled Shaft Endplay

0 inches

93. Assembled Shaft Runout

0.001 inches

94. Test Run Voltage

Volts	Volts	Volts
457	454	459



95. Test Run Amperage

Amps	Amps	Amps
48.1	46.4	46.3

96. Drive End Vibration Readings - Inches Per Second

Horizontal	Vertical	Axial
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97. Opposite Drive End Vibration Readings - Inches Per Second

Horizontal	Vertical	Axial
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98. Ambient Temperature - Fahrenheit

99. Drive End Bearing Temps - Fahrenheit

5 Minutes	10 Minutes	15 Minutes
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100. Opposite Drive End Bearing Temps - Fahrenheit

5 Minutes	10 Minutes	15 Minutes
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101. Document Final Condition with Pictures after paint

see below

102. Final Pics and QC Review

Terrence Holland

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Co sign RW

