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

AC Inspection as Found

Hormel (11974)
8201 Fraizer Pike
Little Rock, AR 72206

FolderID: 104971
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AC Inspection - Rev. 2

Location:	LR MOTOR SHOP
Serial Number:	TYPE-AEHH8N
Description:	100 HP TECO WESTINGHOUSE

Hi-Speed Job Number:	104971
Manufacturer:	TECO Westinghouse
Product Number:	CAT# EP1004R
Serial Number:	TYPE-AEHH8N
HP/kW:	100 (HP)
RPM:	1775 (RPM)
Frame:	405T
Voltage:	230 / 460
Current:	224/112
Phase:	Single
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	12
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	Yes
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: **1 - High** **10 - Good**

Overall Condition

1.	Report Date	**08/05/2025**

2. Nameplate Picture P38

3. Photos of all six sides of the machine. P46

	4.	Describe the Overall Condition of the Equipment as Received ***Serviceable***	
	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%	

13.	Lead Condition	**(P) Pass**	
14.	Lead Length	**10.5 Inches**	
15.	Does it have Lugs?, If so what is the Stud Size?	**(YES) YES**	
16.	Lead Numbers	**1-12**	
17.	Are the Leads insulated with Chico or other material	**(NO) NO**	
18.	Frame Condition	**pass**	
19.	Fan Condition	**(P) Pass**	P121

20.	Does motor have internal fan?	**(NO) NO**	
21.	Broken or Missing Components	**none**	

Initial Electrical Inspection

22.	Insulation Resistance/Megger	**2.306 Megohms**	P8

23. Winding Resistance

1-2	1-3	2-3

24.	Perform Surge Test	**(F) Fail**	P57

25.	Number of Stator Slots	**60**	
26.	Stator Condition	**60**	
27.	Stator Thermistors/Ohms		
28.	Stator Overloads/Ohms		

Mechanical Inspection

29.	Drive End Bearing Brand	**NTN**	P12

30.	Drive End Bearing Number-	**NU 317 E**	
31.	Drive End Bearing Qty.	**1**	
32.	Drive End Bearing Type	**(Roller) Roller Bearing**	P50

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

34.	Drive End Bearing Insulation or Grounding Device?		
35.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	**none**	
36.	Drive End Bearing Condition	**replace**	
37.	Opposite Drive End Bearing Brand	**NTN**	
38.	Opposite Drive End Bearing Number-	**6313Z**	P101

39.	Opposite Drive End Bearing Qty.	**1**	
40.	Opposite Drive End Bearing Type	**(Ball) Ball Bearing**	P109

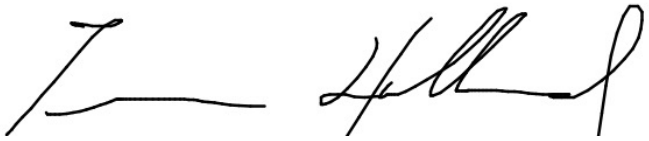
41.	Opposite Drive End Lubrication Type	**(Grease) Grease Lubricated**
42.	Opposite Drive End Bearing Insulation or Grounding Device?	**none**
43.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	**wavy washer**
44.	Opposite Drive End Bearing Condition	**replace**
45.	Drive End Seal	
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	**48**
50.	Rotor Condition	**pass**
51.	List the Parts needed for the Repair Below	

1) NU 317E
1) 6313 C3

52. Signature of Technician that Disassembled Motor — **Terrence Holland**



Mechanical Fits- Rotor

53. Shaft Runout — **0 inches**

54. Rotor Runout

Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing

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
3.348	**3.3479**	**3.3479**

58. Drive End Bearing Shaft Fit Condition — **(P) Pass**

59. Opposite Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
2.5599	**2.5598**	**2.5599**

60. Opposite Drive End Bearing Shaft Fit Condition — **(P) Pass**

61. Shaft Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal

Mechanical Fits- Bearing Housings

62. Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees
7.0876	**7.0875**	**7.0876**

63. Drive End - Endbell Bearing Fit Condition — **(P) Pass**

64. Opposite Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees
5.5127	**5.5126**	**5.5128**

65. Opposite Drive End - Endbell Bearing Fit Condition — **(P) Pass**

66. Bearing Cap Condition

Drive End Bearing Cap	Opposite Drive End Bearing Cap
pass	**pass**

67. End Bell Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal

68. List Machine Work Needed Below

None

69. Technician **Terrence Holland**

Root Cause of Failure

70. Failure locations

Windings

71. Root cause of failure

Coil to coil short.

Dynamic Balance Report

72. Rotor Weight and Balance Grade

Rotor Weight	Balance Grade

73. Initial Balance Readings

Drive End	Opposite Drive End

74. Final Balance Readings

Drive End	Opposite Drive End

75. Technician

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

79. Post Rewind Polarization Index

80. Post Rewind Winding Resistance

1-2	1-3	2-3

81. Post Rewind Surge Test

82. THERMAL DETECTION EQUIPMENT FINAL TESTING - RTD'S/KLIXONS/THERMISTORS

83. Post Rewind Hi-Pot

84. Technician

Assembly

85. QC Check All Parts for Cleanliness Prior to Assembly

86. Photograph All Major Components prior to assembly

87. Was a Insulated bearing or end bell tested?

88. Final Insulation Resistance Test

89. Assembled Shaft Endplay

90. Assembled Shaft Runout

91.	Test Run Voltage		
	Volts	Volts	Volts
92.	Test Run Amperage		
	Amps	Amps	Amps
93.	Motor RPM		
94.	Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
95.	Opposite Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
96.	Ambient Temperature - Fahrenheit		
97.	Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
98.	Opposite Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
99.	Document Final Condition with Pictures after paint		
100.	Final Pics and QC Review		