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

AC Inspection as Found

Green Bay Packaging, Pinecrest (11362)
3610 Hwy 64 East
Plummerville, AR 72127

FolderID: 104598
FormID: 24418677

AC Inspection - Rev. 2

Location: LITTLE ROCK MOTOR SHOP

Serial Number:

Description: MOTOR -NO NAMEPLATE DATA

Hi-Speed Job Number:	104598
Manufacturer:	Baldor
Serial Number:	A1212172065
HP/kW:	150 (HP)
RPM:	3570 (RPM)
Frame:	445TS
Voltage:	460
Current:	164 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	6
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
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: **17 - Good**

Overall Condition

1.	Report Date	**05/21/2025**
2.	Nameplate Picture	P37

3. Photos of all six sides of the machine.






	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	**0.003 Inches**
	11.	Assembled Shaft End Play	**0 inches**
	12.	Air Gap Variation <10%	

●	13.	Lead Condition	**(P) Pass**	
	14.	Lead Length	**26 Inches**	
●	15.	Does it have Lugs?, If so what is the Stud Size?	**(Yes) Yes**	P95

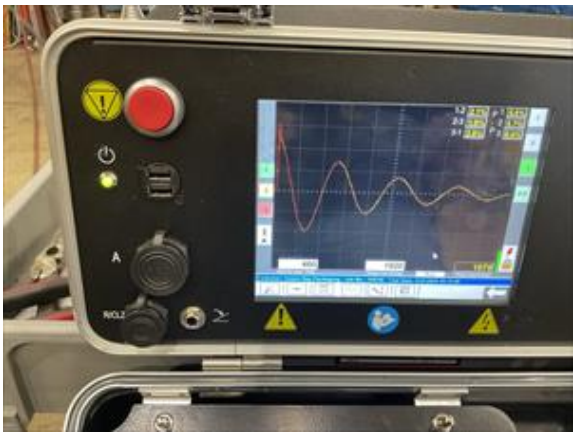
	16.	Lead Numbers	**1-3**	
●	17.	Are the Leads insulated with Chico or other material	**(No) No**	
	18.	Frame Condition	**acceptable**	
●	19.	Fan Condition	**(P) Pass**	
●	20.	Does motor have internal fan?	**(No) No**	
	21.	Broken or Missing Components	**None**	

Initial Electrical Inspection

	22.	Insulation Resistance/Megger	**496 Megohms**	P8

23.	Winding Resistance			P20
	1-2	1-3	2-3	
	1-2 0.029410	**1-3 0.9380**	**2-3 0.29350**	

24.	Perform Surge Test	**(P) Pass**	P57



25.	Number of Stator Slots	**48**
26.	Stator Condition	**pass**
27.	Stator Thermistors/Ohms	
28.	Stator Overloads/Ohms	

Mechanical Inspection

29.	Drive End Bearing Brand	**SKF**
30.	Drive End Bearing Number-	**6313zz**
31.	Drive End Bearing Qty.	**1**
32.	Drive End Bearing Type	**(Ball) Ball Bearing**
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?	

36.	Drive End Bearing Condition	P83

37.	Opposite Drive End Bearing Brand	**SKF**
38.	Opposite Drive End Bearing Number-	**6313zz**
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?	
43.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	
	Wavy washer	
44.	Opposite Drive End Bearing Condition	P120

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	**39**
50.	Rotor Condition	**acceptable**
51.	List the Parts needed for the Repair Below	
	6313zz ***6313zz***	
52.	Signature of Technician that Disassembled Motor	**Donny Spears**

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

2.5592

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

59. Opposite Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees

2.5592

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

5.5122

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

64. Opposite Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees

5.5121

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

66. Bearing Cap Condition

Drive End Bearing Cap	Opposite Drive End Bearing Cap

Acceptable

67. End Bell Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal

68. List Machine Work Needed Below

None

69. Technician **Donny Spears**

Donny Spears

Root Cause of Failure

70. Failure locations

No failure

71. Root cause of failure

Recondition

Dynamic Balance Report

72. Rotor Weight and Balance Grade P7

Rotor Weight	Balance Grade

73. Initial Balance Readings

Drive End	Opposite Drive End

See above

74. Final Balance Readings

Drive End	Opposite Drive End

See item 72

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 **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

Assembly

84. QC Check All Parts for Cleanliness Prior to Assembly **Terrence Holland**

85. Photograph All Major Components prior to assembly **(Complete) Complete** P17

86.	Final Insulation Resistance Test	**Megohms**	P31

87.	Assembled Shaft Endplay	**0 inches**
88.	Assembled Shaft Runout	**0.002 inches**

89. Test Run Voltage P55

Volts	Volts	Volts
457	**457**	**480**

90. Test Run Amperage P65

Amps	Amps	Amps
38.6	**35.7**	**37.4**

91. Drive End Vibration Readings - Inches Per Second

Horizontal	Vertical	Axial
0.02	**0.01**	**0.02**

92. Opposite Drive End Vibration Readings - Inches Per Second

Horizontal	Vertical	Axial
0.02	**0.008999999999999999**	**0.03**

93. Ambient Temperature - Fahrenheit

94. Drive End Bearing Temps - Fahrenheit

5 Minutes	10 Minutes	15 Minutes

95. Opposite Drive End Bearing Temps - Fahrenheit

5 Minutes	10 Minutes	15 Minutes

96. Document Final Condition with Pictures after paint

See below

97. Final Pics and QC Review **Terrence Holland** P135

RRW