



AC Inspection as Found

Reynolds Metals company

1333 highway 270

Malvern, AR 72104

FolderID: 103894
FormID: 22643428

AC Inspection - Rev. 2

Location: LITTLE ROCK MOTOR SHOP

Serial Number: 01319840-8

Description: 75HP MARATHON

Hi-Speed Job Number: 103894

Manufacturer: Marathon

Product Number: 9J365TTFS6036DUW

Serial Number: 01319840-8/15-02

HP/kW: 75 (HP)

RPM: 1780 (RPM)

Frame: 365T

Voltage: 230 / 460

Current: 172 / 86 (Amps)

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.15

Enclosure: TEFC

of Leads: 3

J-box Included: None

Coupling/Sheave: Coupling

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final

Rewind: No

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: ● 1 - High ● 14 - Good

Overall Condition



1. Report Date

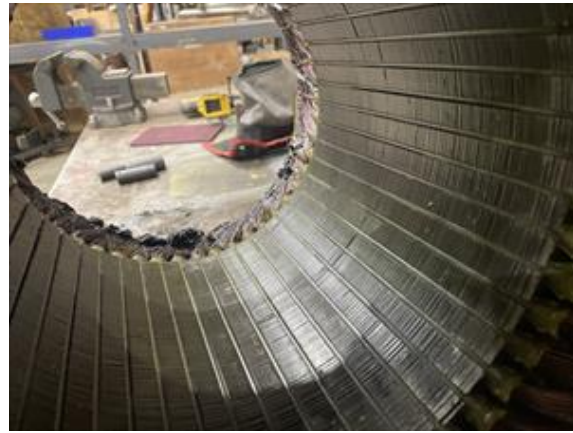
12/26/2024



3. Photos of all six sides of the machine.







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

5. Distance from the end of the shaft to the Coupling/Sheave **0.125 inches**

P76



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	0.001 Inches
10.	Assembled Shaft End Play	0 inches
11.	Air Gap Variation <10%	n/a
12.	Lead Condition	(P) Pass

P69



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13.	Lead Length	9 Inches	
14.	Does it have Lugs?, If so what is the Stud Size?	(Yes) Yes	
15.	Lead Numbers	1-9	
16.	Frame Condition	Pass	
17.	Fan Condition	(P) Pass	P115
			
18.	Broken or Missing Components	Na	
Initial Electrical Inspection			
19.	Insulation Resistance/Megger	Megohms	
20.	Winding Resistance	1-2 1-3 2-3	
	Pass		
21.	Perform Surge Test	(P) Pass	P57
			
22.	Number of Stator Slots	48	
23.	Stator Condition	Pass	
24.	Stator Thermistors/Ohms	Na	

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25. Stator Overloads/Ohms

Na

Mechanical Inspection



26. Drive End Bearing Brand

P12

Ntn



27. Drive End Bearing Number-

P32



28. Drive End Bearing Qty.

1

29. Drive End Bearing Type

(Ball) Ball Bearing

30. Drive End Lubrication Type

(Grease) Grease Lubricated

31. Drive End Bearing Insulation or Grounding Device?

Na

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

Na

33. Drive End Bearing Condition

Replace

34. Opposite Drive End Bearing Brand

P92

Skf



35. Opposite Drive End Bearing Number-
6312

P99



36. Opposite Drive End Bearing Qty.

1



38. Opposite Drive End Lubrication Type

(Grease) Grease Lubricated

39. Opposite Drive End Bearing Insulation or Grounding Device?

☐ Na

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

☐ Na

41. Opposite Drive End Bearing Condition

☐ Replace

42. Drive End Seal

☐ Yes

P120



43. Opposite Drive End Seal

☐ Na**Rotor Inspection**

44. Rotor Type/Material

(Squirrel Aluminum) Squirrel
Cage Aluminum Die Cast

45. Growler Test

(Pass) Pass

46. Number of Rotor Bars

40

47. Rotor Condition

☐ Good

48. List the Parts needed for the Repair Below

*Bearings 6314 & 6312 2Z/C3 bearings
Sleeve ODE housing fit*

49. Signature of Technician that Disassembled Motor

Jason Peeples


 Co-sign TRH
Mechanical Fits- Rotor50. Shaft Runout inches
 .001

51. Rotor Runout

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

 Na

52. Coupling Fit Closest to Bearing Housing

0 Degrees

90 Degrees

120 Degrees

 Na

53. Coupling Fit Closest to the end of the Shaft

0 Degrees

60 Degrees

120 Degrees

 2.374

54. Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

2.7565

2.7563

2.7563

 55. Drive End Bearing Shaft Fit Condition (P) Pass

56. Opposite Drive End Bearing Shaft Fit

0 Degrees


60 Degrees

120 Degrees

2.3624

2.3624

2.3623

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

58. Shaft Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

 Na
Mechanical Fits- Bearing Housings

59. Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

5.906

5.906

5.6061

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

0 Degrees

60 Degrees

120 Degrees

 *Excessive wear* 62. Opposite Drive End - Endbell Bearing Fit Condition **(F) Fail**

63. Bearing Cap Condition

Drive End Bearing Cap

Opposite Drive End Bearing Cap

 *Na*

64. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

 *Na*

65. List Machine Work Needed Below

ODE housing fit

66. Technician

Jason Peeples *Co-sign TRH***Root Cause of Failure**

67. Failure locations

Bearings, and ODE housing

68. Root cause of failure

*Contaminated grease***Dynamic Balance Report**

69. Rotor Weight and Balance Grade






Rotor Weight

Balance Grade

70. Initial Balance Readings



Drive End

Opposite Drive End

71. Final Balance Readings			
Drive End		Opposite Drive End	
72. Technician			
Mechanical Fits- Bearing Housings - Post Repair			
73. Drive End - Endbell Bearing Fit Post Repair			
0 Degrees	60 Degrees	120 Degrees	
74. Opposite Drive End - Endbell Bearing Fit Post Repair P19			
0 Degrees	60 Degrees	120 Degrees	
5.1184	5.1184	5.1184	
			
75. Bearing Cap Condition Post Repair			
Drive End Bearing Cap		Opposite Drive End Bearing Cap	
76. End Bell Air Seal Fits Post Repair			
Drive End Air Seal		Opposite Drive End Air Seal	
77. End Bell Repair Sign-off			RW
			
Assembly			
78. QC Check All Parts for Cleanliness Prior to Assembly			Terrence Holland
			





81.	Assembled Shaft Endplay	0 inches	
82.	Assembled Shaft Runout	0.002 inches	
83.	Test Run Voltage	P56	
	Volts	Volts	Volts
	460	4599	462
			
84.	Test Run Amperage	P65	
	Amps	Amps	Amps
	28.8	27.4	27.6
			
85.	Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
	0.03	0.02	0.04

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86.	Opposite Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
	0.04	0.02	0.01
87.	Ambient Temperature - Fahrenheit		
88.	Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
89.	Opposite Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
90.	Document Final Condition with Pictures after paint		
	See below		

91.

Final Pics and QC Review

Terrence Holland

P131



Co sign: DM



