



AC Inspection as Found Big River Steel (004767) 2027 E State Highway 198

Osceola, AR 72370

FolderID: 153676 FormID: 21608538



AC Inspection - Rev. 2 Default Location: Serial Number:

Hi-Speed Job Number:	153676
Manufacturer:	Rossi
Product Number:	RC00037158
Serial Number:	1960678
HP/kW:	4 (HP)
RPM:	1740 (RPM)
Voltage:	230 / 460
Current:	10-5.8 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	6
J-box Included:	Complete
Coupling/Sheave:	Gear
Date Received:	09/13/2024
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
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: **a 3 - High**

11 - Good

Overall Condition 0 09/13/2024 Report Date



3. Photos of all six sides of the machine.







РЗ













	4.	Describe the Overall Condition of the Equipment as Received Rewind stator and replace gear box seals		
	5.	Distance from the end of the shaft to the Coupling/Sheave	0 inches	
		Shouldered with shaft bolt		
6.		Report Date [COPY]	09/13/2024	
Ini	nitial Mechanical/Electrical			0
	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	0.001 Inches	
	11.	Assembled Shaft End Play	0.0005 inches	

13. Lead Condition
(P) Pass
P13





14. Lead Length 4 Inches

15. Does it have Lugs?, If so what is the Stud Size?
(Yes) Yes
P15



16.	Lead Numbers			1-6	
17.	Frame Condition			good	
18.	Fan Condition			(P) Pass	
19.	Broken or Missing Components			none	
Initial	Electrical Inspection				Ō
20.	Insulation Resistance/Megger			4204 Megohms	
21.	Winding Resistance				
	1-2	1-3	2-3		
	2.206	2.835	0.814		



23.	Number of Stator Slots	36	
24.	Stator Condition	rewind	
25.	Stator Thermistors/Ohms	.590	
-	1590 k ohms		
26.	Stator Overloads/Ohms		
Mecha	nical Inspection		Ō
27.	Drive End Bearing Brand	nsk	
20	Drive Ford Decrine Number	C20C2	

27.	Drive End Bearing Brand	nsk	
28.	Drive End Bearing Number-	6206 zz c3	
29.	Drive End Bearing Qty.	1	
30.	Drive End Bearing Type	(Ball) Ball Bearing	
31.	Drive End Lubrication Type	(Grease) Grease Lubricated	
32.	Drive End Bearing Insulation or Grounding Device?	none present	
33.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer	P33



34.	Drive End Bearing Condition		
35.	Opposite Drive End Bearing Brand	nsk	
36.	Opposite Drive End Bearing Number-	6206 2rs	
37.	Opposite Drive End Bearing Qty.	1	
38.	Opposite Drive End Bearing Type	(Ball) Ball Bearing	
39.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
40.	Opposite Drive End Bearing Insulation or Grounding Device?	none present	
41.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring on shaft and in endbell	
42.	Opposite Drive End Bearing Condition		

43. Drive End Seal **30-50-7 lipseal** P43



44. Opposite Drive End Seal va32-20

Rotor Inspection

- 45. Rotor Type/Material (Aluminum Bar) Aluminum Barred Rotor
- 46. Growler Test (Pass) Pass
- 47. Number of Rotor Bars 26
- 48. Rotor Condition good
- 49. List the Parts needed for the Repair Below
 - 1- VA32-20
 - 1- 30-50-7 lip seal
 - 2- 6206 2rs c3 bearings
 - 1- 40-90-8/7 lipseal
 - 1- 50-66-8/8.5 lipseal

50. Signature of Technician that Disassembled Motor

Nigel Hill

Mechanical Fits- Rotor

- 51. Shaft Runout
- 52. Rotor Runout

Drive End Bearing Fit Rotor Body Opposite Drive End Bearing

53. Coupling Fit Closest to Bearing Housing

0 Degrees 90 Degrees 120 Degrees

54. Coupling Fit Closest to the end of the Shaft

0 Degrees 60 Degrees 120 Degrees

55. Drive End Bearing Shaft Fit

0 Degrees 60 Degrees 120 Degrees 1.1815 1.1814 1.1814

Tol. 1.1815-1.1812

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

	57.	Opposite Drive End Bearing Shaft	Fit		
		0 Degrees	60 Degrees	120 Degrees	
		1.1813	1.1813	1.1813	
	-	Tol. 1.1815-1.1812			
	58.	Opposite Drive End Bearing Shaft	Fit Condition		(P) Pass
	59.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
		good	good		
M	echai	nical Fits- Bearing Housings			
	60.	Drive End - Endbell Bearing Fit			
		0 Degrees	60 Degrees	120 Degrees	
		2.4414	2.4415	2.4414	
	-	Tol. 2.4409-2.4416			
	61.	Drive End - Endbell Bearing Fit Co	ondition		(P) Pass
	62.	Opposite Drive End - Endbell Bear	ring Fit		
		0 Degrees	60 Degrees	120 Degrees	
		2.441	2.4411	2.4411	
	-	Tol. 2.4409-2.4416			
	63.	Opposite Drive End - Endbell Bear	ring Fit Condition		(P) Pass
	64.	Bearing Cap Condition			
		Drive End Bearing Cap	Opposite Drive End Bearing Cap		
		n/a	n/a		
	65.	End Bell Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
		good	good		
	66.	List Machine Work Needed Below			
		No work needed			
	67.	Technician			Nigel Hill
	1	My			
R	oot C	ause of Failure			
	68.	Failure locations			

68. Failure locations

Winding failed

69. Root cause of failure