



AC Inspection as Found

ConAgra (10859-CON)

3100 E. Main St.

Russellville, AR 72801

FolderID: 101583
FormID: 17240297

AC Inspection - Rev. 2

Location: MOTOR SHOP LR

Serial Number: W20002127-AL

Description: 800HP ODP

Hi-Speed Job Number: 101583

Manufacturer: Other

Serial Number: W20002127-AL

HP/kW: 800 (HP)

RPM: 3580 (RPM)

Frame: 5808S

Voltage: 2300/4160

Current: 177/98.4

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.15

Enclosure: ODP

of Leads: 6

J-box Included: None

Coupling/Sheave: None

Date Received: 07/05/2023

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final


Rewind: No


Shaft Machined Fit Repairs
Required: Yes

Bearing Housing Machined
Fit Repairs Required: Yes

Heaters: No

Winding Type : Form Coil

Priorities Found:  4 - High

 3 - Good

Overall Condition



1. Report Date

2. Nameplate Picture

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3. Photos of all six sides of the machine.

P45







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

Initial Mechanical/Electrical



5. Does Shaft Turn Freely?

(No) No

6. Does Shaft Have Visible Damage?

(Yes) Yes

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7. Assembled Shaft Runout

8. Assembled Shaft End Play

9. Air Gap Variation <10%

● 10. Lead Condition

(P) Pass

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11. Lead Length

18 Inches

12. Lead Numbers

1-6

13. Frame Condition

pass

14. Fan Condition

(N) NA

15. Broken or Missing Components

missing 2 eyebolts

Initial Electrical Inspection



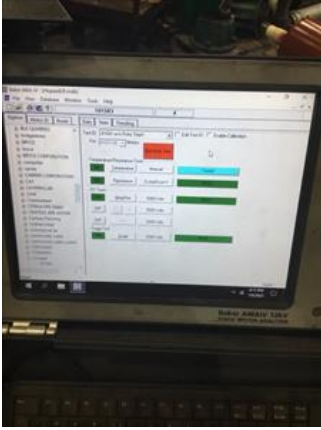
16. Insulation Resistance/Megger

17. Winding Resistance

1-2

1-3

2-3



19. Number of Stator Slots	54 Megohms
20. Stator Condition	pass
21. Stator Thermistors/Ohms	
22. Stator Overloads/Ohms	

Mechanical Inspection



23. Drive End Bearing Brand	SKF	
24. Drive End Bearing Number-	6316	P28



25. Drive End Bearing Qty.	1
26. Drive End Bearing Type	(Ball) Ball Bearing
27. Drive End Lubrication Type	(Grease) Grease Lubricated
28. Drive End Bearing Insulation or Grounding Device?	none
29. Drive End Wavy Washer/Snap-Ring Other Retention Device?	none
30. Drive End Bearing Condition	destroyed
31. Opposite Drive End Bearing Brand	SKF
32. Opposite Drive End Bearing Number-	6316 2Z/C3
33. Opposite Drive End Bearing Qty.	1



35. Opposite Drive End Lubrication Type

(Grease) Grease Lubricated

36. Opposite Drive End Bearing Insulation or Grounding Device?

none

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

38. Opposite Drive End Bearing Condition

replace

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39. Drive End Seal

none

40. Opposite Drive End Seal

none

41. DE Sleeve Bearing Inside Diameter

0 degrees

120 degrees

240 degrees

42. DE Sleeve Bearing Outside Diameter

0 degrees

120 degrees

240 degrees

43. DE Sleeve Bearing Housing Inside Diameter

0 degrees

120 degrees

240 degrees

44. DE Sleeve Bearing to Housing Clearance

0 degrees

120 degrees





240 degrees

45. ODE Sleeve Bearing Inside Diameter

0 degrees

120 degrees

240 degrees

46.	ODE Sleeve Bearing Outside Diameter		
	0 degrees	120 degrees	240 degrees
47.	ODE Sleeve Bearing Housing Inside Diameter		
	0 degrees	120 degrees	240 degrees
48.	ODE Sleeve Bearing to Housing Clearance		
	0 degrees	120 degrees	240 degrees
Rotor Inspection			
49.	Rotor Type/Material		(Aluminum Bar) Aluminum Barred Rotor
50.	Growler Test		(Pass) Pass
51.	Number of Rotor Bars		41
52.	Rotor Condition		replace shaft
53.	List the Parts needed for the Repair Below <i>New shaft</i>		
54.	Signature of Technician that Disassembled Motor		Terrence Holland
			
Mechanical Fits- Rotor			
55.	Shaft Runout		inches
	 <i>Shaft replacement.</i>		
56.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
57.	Coupling Fit Closest to Bearing Housing		
	0 Degrees	90 Degrees	120 Degrees
58.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
59.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	 <i>Shaft needs replacing</i>		
 60.	Drive End Bearing Shaft Fit Condition		(F) Fail
61.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	 <i>New shaft</i>		
 62.	Opposite Drive End Bearing Shaft Fit Condition		(NA) Not Applicable
	 <i>Need a new shaft</i>		

63.	Shaft Air Seal Fits	
	Drive End Air Seal	Opposite Drive End Air Seal
	needs sleeved	
Mechanical Fits- Bearing Housings		
64.	Drive End - Endbell Bearing Fit	
	0 Degrees	60 Degrees 120 Degrees
	Bad	
65.	Drive End - Endbell Bearing Fit Condition	(F) Fail
	Excessive wear	
66.	Opposite Drive End - Endbell Bearing Fit	
	0 Degrees	60 Degrees 120 Degrees
	Bad	
67.	Opposite Drive End - Endbell Bearing Fit Condition	(F) Fail P38
		
68.	Bearing Cap Condition	
	Drive End Bearing Cap	Opposite Drive End Bearing Cap
	Re-sleeve	
69.	End Bell Air Seal Fits	
	Drive End Air Seal	Opposite Drive End Air Seal
70.	List Machine Work Needed Below	
	Machine both housing fits. Make a new shaft, and sleeve the D.E bearing cap, plus machine and sleeve the D.E. end bell shaft opening.	
71.	Technician	Terrence Holland
		
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		
Root Cause of Failure			
76.	Failure locations		
77.	Root cause of failure		
Mechanical Fits- Rotor - Post Repair			
78.	Shaft Runout Post Repair		
79.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
80.	Coupling Fit Closest to Bearing Housing Post Repair		
	0 Degrees	90 Degrees	120 Degrees
81.	Coupling Fit Closest to the end of the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees
82.	Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
83.	Opposite Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
84.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
85.	Shaft Repair Sign-off		
Mechanical Fits- Bearing Housings - Post Repair			
86.	Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
87.	Opposite Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
88.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
89.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
90.	DE Sleeve Bearing Inside ID Post Repair		
	Measure 1	Measure 2	Measure 3

91.	DE Sleeve Bearing Outside ID Post Repair		
	Measure 1	Measure 2	Measure 3
92.	DE Sleeve Bearing Inside OD Post Repair		
	Measure 1	Measure 2	Measure 3
93.	DE Sleeve Bearing Outside OD Post Repair		
	Measure 1	Measure 2	Measure 3
94.	End Bell Repair Sign-off		
95.	ODE Sleeve Bearing Inside ID Post Repair		
	Measure 1	Measure 2	Measure 3
96.	ODE Sleeve Bearing Outside ID Post Repair		
	Measure 1	Measure 2	Measure 3
97.	ODE Sleeve Bearing Inside OD Post Repair		
	Measure 1	Measure 2	Measure 3
98.	ODE Sleeve Bearing Outside OD Post Repair		
	Measure 1	Measure 2	Measure 3
Assembly			
99.	QC Check All Parts for Cleanliness Prior to Assembly		
100.	Photograph All Major Components prior to assembly		
101.	Final Insulation Resistance Test		
102.	Assembled Shaft Endplay		
103.	Assembled Shaft Runout		
104.	Test Run Voltage		
	Volts	Volts	Volts
105.	Test Run Amperage		
	Amps	Amps	Amps
106.	Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
107.	Opposite Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
108.	Ambient Temperature - Fahrenheit		
109.	Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
110.	Drive End Bearing Temps - Fahrenheit 20-30 Minutes		
	20 Minutes	25 Minutes	30 Minutes

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111. Drive End Bearing Temps - Fahrenheit 35-45 Minutes			
35 Minutes	40 Minutes	45 Minutes	
112. Drive End Bearing Temps - Fahrenheit 50-60 Minutes			
50 Minutes	55 Minutes	60 Minutes	
113. Opposite Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
114. Opposite Drive End Bearing Temps - Fahrenheit 20-30 Minutes			
20 Minutes	25 Minutes	30 Minutes	
115. Opposite Drive End Bearing Temps - Fahrenheit 35-45 Minutes			
35 Minutes	40 Minutes	45 Minutes	
116. Opposite Drive End Bearing Temps - Fahrenheit 50-60 Minutes			
50 Minutes	55 Minutes	60 Minutes	
117. Stator Temperatures- Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
118. Stator Temperatures- Fahrenheit 20-30 Minutes			
20 Minutes	25 Minutes	30 Minutes	
119. Stator Temperatures- Fahrenheit 35-45 Minutes			
35 Minutes	40 Minutes	45 Minutes	
120. Stator Temperatures- Fahrenheit 50-60 Minutes			
50 Minutes	55 Minutes	60 Minutes	
121. Document Final Condition with Pictures after paint			
122. Final Pics and QC Review			