



AC Recondition As Found

Hiland Dairy (10126)

6901 I-30

Little Rock, AR 72209

FolderID: 100749
FormID: 15649884

AC Recondition - Rev. 2

Location: MOTOR SHOP LR
Serial Number: W08 473295F
Description: 30KW ATB 1800RPM 200L

Hi-Speed Job Number:	100749
Manufacturer:	Other
Product Number:	3113762-2
Serial Number:	W08 473295F
HP/kW:	30 (kW)
RPM:	1780 (RPM)
Frame:	200L
Voltage:	460
Current:	56
Phase:	Three
Hz:	60 (Hz)
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: ● 5 - High ● 2 - Good

Overall Condition



1. Report Date
2. Nameplate Picture

P20





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3. Photos of all six sides of the machine.
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?	(No) No
	7. Assembled Shaft Runout	
	8. Assembled Shaft End Play	
	9. Air Gap Variation <10%	

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10.	Lead Condition	(P) Pass	P32
			
11.	Lead Length		
12.	Frame Condition	pass	
13.	Fan Condition	(P) Pass	P54



14.	Broken or Missing Components		
	<div> <div></div> <div>Fan cover mount bolts. One connection block lead wire mount bolt.</div> </div>		
Initial Electrical Inspection			<div> <div></div> </div>
15.	Insulation Resistance/Megger		
16.	Winding Resistance		
	1-2	1-3	2-3



18. Number of Stator Slots

19. Stator Condition

rewind stator

Mechanical Inspection

20. Drive End Bearing Number-

6212 2Z

21. Drive End Bearing Qty.

1

22. Drive End Bearing Type

(Ball) Ball Bearing

23. Drive End Lubrication Type

(Grease) Grease Lubricated

24. Drive End Bearing Insulation or Grounding Device?

none

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

yes, 2ea.

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26. Drive End Bearing Condition

total cage and bearing failure.

27. Opposite Drive End Bearing Number-

6212 2Z



29. Opposite Drive End Bearing Type	(Ball) Ball Bearing
30. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
31. Opposite Drive End Bearing Insulation or Grounding Device?	none
32. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	none
33. Opposite Drive End Bearing Condition	replace
34. Drive End Seal	none
35. Opposite Drive End Seal	none

Rotor Inspection

36. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
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P3



37. Growler Test	(Pass) Pass
38. Number of Rotor Bars	
39. Rotor Condition	pass
40. List the Parts needed for the Repair Below <i>Re-sleeve both end bell housing fits. Machine both shaft bearing journals. Rewind Stator.</i>	
41. Signature of Technician that Disassembled Motor	Terrence Holland

Mechanical Fits- Rotor

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42.	Shaft Runout		
43.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
44.	Coupling Fit Closest to Bearing Housing		
	0 Degrees	90 Degrees	120 Degrees
45.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
46.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees

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Excessive wear.



47. Drive End Bearing Shaft Fit Condition (F) Fail P45



48.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	2.3621	2.362	2.3622

49. Opposite Drive End Bearing Shaft Fit Condition (F) Fail

Out of tolerance.

50.	Shaft Air Seal Fits	
	Drive End Air Seal	Opposite Drive End Air Seal

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Mechanical Fits- Bearing Housings



51. Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees



Excessive wear.

52. Drive End - Endbell Bearing Fit Condition

(F) Fail

P10



53. Opposite Drive End - Endbell Bearing Fit

P17

0 Degrees

60 Degrees

120 Degrees



Excessive wear.



54. Opposite Drive End - Endbell Bearing Fit Condition

(F) Fail

P22



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55.	Bearing Cap Condition	
	Drive End Bearing Cap	Opposite Drive End Bearing Cap
	none	none
56.	End Bell Air Seal Fits	
	Drive End Air Seal	Opposite Drive End Air Seal
57.	List Machine Work Needed Below <i>Re-sleeve both housing fits. Machine both shaft bearing journals.</i>	
58.	Technician	Terrence Holland
		
Root Cause of Failure		
59.	Failure locations <i>Windings shorted on drive end. Both housing fits bad. Both shaft fits bad.</i>	
60.	Root cause of failure	