



AC Inspection as Found

Tyson Foods (10914)

1238 Market Street
Clarksville, AR 72830

FolderID: 102404
FormID: 19487031

AC Inspection - Rev. 2

Location: MOTOR SHOP LR

Serial Number: H2343989

Description: 5HP GOULD PUMP

Hi-Speed Job Number: 102404

Manufacturer: Other

Product Number: WS5012D4

Serial Number: H2343989

HP/kW: 5 (HP)

RPM: 1725 (RPM)

Frame: SUB

Voltage: 230 / 460

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.15

Repair Stage: Final

Priorities Found: ● 1 - High ● 8 - Good

Overall Condition



1. Report Date

2. Nameplate Picture

P37



3. Photos of all six sides of the machine.

P45



4. Describe the Overall Condition of the Equipment as Received

Disassembled

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

inches

Na

Initial Mechanical/Electrical



6. Does Shaft Turn Freely? (Yes) 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 Inches

Na

10. Assembled Shaft End Play

inches

Na

11. Air Gap Variation <10%

Na

12. Lead Condition (P) Pass

P69





13. Lead Length 8 Inches

14. Does it have Lugs?, If so what is the Stud Size? (No) No

15. Lead Numbers

Na

16. Stator Temperature Detector Rating and Function			
Quantity	Rating	Quantity Passed	
Na			
17. Bearing Temperature Detector Rating and Function			
Quantity	Rating	Quantity Passed	
Na			
18. Frame Condition		pass	
19. Fan Condition		(N) NA	
20. Heater Quantity, Ratings			
Quantity	Volts/Watts	Pass/Fail	
Na			
21. Broken or Missing Components			
Na			
Initial Electrical Inspection			
22. Insulation Resistance/Megger		8000 Megohms	
23. Winding Resistance			
1-2	1-3	2-3	
Na			
24. Perform Surge Test		(P) Pass	
25. Number of Stator Slots		40	
26. Stator Condition		wash and dry	
27. Stator Thermistors/Ohms			
Na			
28. Stator Overloads/Ohms			
Na			
Mechanical Inspection			
<div>  </div>			
29. Drive End Bearing Brand		NSK	
30. Drive End Bearing Number-		6206	P32
<div>  </div>			
31. Drive End Bearing Qty.		1	
32. Drive End Bearing Type		(Ball) Ball Bearing	
33. Drive End Lubrication Type		(Oil) Oil Lubricated	

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34.	Drive End Bearing Insulation or Grounding Device?	na	
35.	Drive End Wavy Washer/Snap-Ring Other Retention Device?		
	Na		
36.	Drive End Bearing Condition	normal wear	P82
			
37.	Opposite Drive End Bearing Brand	NSK	
38.	Opposite Drive End Bearing Number-	6204	P99
			
39.	Opposite Drive End Bearing Qty.	1	
40.	Opposite Drive End Bearing Type	(Ball) Ball Bearing	
41.	Opposite Drive End Lubrication Type	(Oil) Oil Lubricated	
42.	Opposite Drive End Bearing Insulation or Grounding Device?	na	
43.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer	
44.	Opposite Drive End Bearing Condition	normal wear	P118

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45. Drive End Seal

P120

Carbon ceramic



46. Opposite Drive End Seal

Na

47. DE Sleeve Bearing Inside Diameter

0 degrees	120 degrees	240 degrees
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Na

48. DE Sleeve Bearing Outside Diameter

0 degrees	120 degrees	240 degrees
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Na

49. DE Sleeve Bearing Housing Inside Diameter



0 degrees	120 degrees	240 degrees
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Na

50. DE Sleeve Bearing to Housing Clearance

0 degrees	120 degrees	240 degrees
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Na

51. ODE Sleeve Bearing Inside Diameter	0 degrees	120 degrees	240 degrees
Na			
52. ODE Sleeve Bearing Outside Diameter	0 degrees	120 degrees	240 degrees
Na			
53. ODE Sleeve Bearing Housing Inside Diameter	0 degrees	120 degrees	240 degrees
Na			
54. ODE Sleeve Bearing to Housing Clearance	0 degrees	120 degrees	240 degrees
Na			
Rotor Inspection			
55. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast		
56. Growler Test	(Pass) Pass		
57. Number of Rotor Bars	48		P28
			
58. Rotor Condition	pass		
59. List the Parts needed for the Repair Below	6206 6204 bearings		
60. Signature of Technician that Disassembled Motor	RW		
			
Mechanical Fits- Rotor			
61. Shaft Runout	inches		
Na			

62.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
	<div> <div></div> <div>Na</div> </div>		
63.	Coupling Fit Closest to Bearing Housing		
	0 Degrees	90 Degrees	120 Degrees
	<div> <div></div> <div>Na</div> </div>		
64.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
	<div> <div></div> <div>Na</div> </div>		
65.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	1.1816	1.1816	1.1816
			
66.	Drive End Bearing Shaft Fit Condition		
	(P) Pass		
67.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	0.7877	0.7877	0.7877
			
68.	Opposite Drive End Bearing Shaft Fit Condition		
	(P) Pass		

69. Shaft Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

Na

Mechanical Fits- Bearing Housings



70. Drive End - Endbell Bearing Fit

P2

0 Degrees

60 Degrees

120 Degrees

2.4416

2.4416

2.4416



71. Drive End - Endbell Bearing Fit Condition

(P) Pass

72. Opposite Drive End - Endbell Bearing Fit

P30

0 Degrees

60 Degrees

120 Degrees

1.851

1.851

1.851



73. Opposite Drive End - Endbell Bearing Fit Condition

(P) Pass

74. Bearing Cap Condition

Drive End Bearing Cap

Opposite Drive End Bearing Cap

Na

75. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

Na

76. List Machine Work Needed Below

Na

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Root Cause of Failure

78. Failure locations

Seals

79. Root cause of failure

Both capacitors, power cord, and seals.

Dynamic Balance Report

80. Rotor Weight and Balance Grade

Rotor Weight

Balance Grade

81. Initial Balance Readings

Drive End

Opposite Drive End

82. Final Balance Readings

Drive End

Opposite Drive End

83. Technician

Rewind

84. Core Test Results - Watts loss per Pound

Pre-Burnout

Post Burnout

85. Core Hot Spot Test

Pre-Burnout

Post-Burnout

86. Post Rewind Electrical Test- Insulation Resistance

87. Post Rewind Polarization Index

88. Post Rewind Winding Resistance

1-2

1-3

2-3

89. Post Rewind Surge Test

90. Post Rewind Hi-Pot

91. Technician

Mechanical Fits- Rotor - Post Repair

92. Shaft Runout Post Repair

93. Rotor Runout Post Repair

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

94. Coupling Fit Closest to Bearing Housing Post Repair

0 Degrees

90 Degrees

120 Degrees

95.	Coupling Fit Closest to the end of the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees
96.	Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
97.	Opposite Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
98.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
99.	Shaft Repair Sign-off		
Mechanical Fits- Bearing Housings - Post Repair			
100.	Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
101.	Opposite Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
102.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
103.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
104.	DE Sleeve Bearing Inside ID Post Repair		
	Measure 1	Measure 2	Measure 3
105.	DE Sleeve Bearing Outside ID Post Repair		
	Measure 1	Measure 2	Measure 3
106.	DE Sleeve Bearing Inside OD Post Repair		
	Measure 1	Measure 2	Measure 3
107.	DE Sleeve Bearing Outside OD Post Repair		
	Measure 1	Measure 2	Measure 3
108.	End Bell Repair Sign-off		
109.	ODE Sleeve Bearing Inside ID Post Repair		
	Measure 1	Measure 2	Measure 3
110.	ODE Sleeve Bearing Outside ID Post Repair		
	Measure 1	Measure 2	Measure 3

111. ODE Sleeve Bearing Inside OD Post Repair			
Measure 1	Measure 2	Measure 3	
112. ODE Sleeve Bearing Outside OD Post Repair			
Measure 1	Measure 2	Measure 3	
Assembly			
113. QC Check All Parts for Cleanliness Prior to Assembly			
114. Photograph All Major Components prior to assembly			
115. Final Insulation Resistance Test			
116. Assembled Shaft Endplay			
117. Assembled Shaft Runout			
118. Test Run Voltage			
Volts	Volts	Volts	
119. Test Run Amperage			
Amps	Amps	Amps	
120. Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical	Axial	
121. Opposite Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical	Axial	
122. Ambient Temperature - Fahrenheit			
123. Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
124. Drive End Bearing Temps - Fahrenheit 20-30 Minutes			
20 Minutes	25 Minutes	30 Minutes	
125. Drive End Bearing Temps - Fahrenheit 35-45 Minutes			
35 Minutes	40 Minutes	45 Minutes	
126. Drive End Bearing Temps - Fahrenheit 50-60 Minutes			
50 Minutes	55 Minutes	60 Minutes	
127. Opposite Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
128. Opposite Drive End Bearing Temps - Fahrenheit 20-30 Minutes			
20 Minutes	25 Minutes	30 Minutes	
129. Opposite Drive End Bearing Temps - Fahrenheit 35-45 Minutes			
35 Minutes	40 Minutes	45 Minutes	

130. Opposite Drive End Bearing Temps - Fahrenheit 50-60 Minutes			
50 Minutes	55 Minutes	60 Minutes	
131. Stator Temperatures- Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
132. Stator Temperatures- Fahrenheit 20-30 Minutes			
20 Minutes	25 Minutes	30 Minutes	
133. Stator Temperatures- Fahrenheit 35-45 Minutes			
35 Minutes	40 Minutes	45 Minutes	
134. Stator Temperatures- Fahrenheit 50-60 Minutes			
50 Minutes	55 Minutes	60 Minutes	
135. Document Final Condition with Pictures after paint			
136. Final Pics and QC Review			