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LR Motor Shop Repairs

Job Number 102404

Prepared for Tyson Foods (10914)

1238 Market Street
Clarksville AR 72830

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AC Inspection as Found - *MOTOR SHOP LR*

AC Inspection - Rev. 2: *H2343989*

1.0

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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

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final

Rewind: No

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: ● 1 - High ● 9 - Good

Overall Condition

1. Report Date
2. Nameplate Picture



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3. Photos of all six sides of the machine.



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

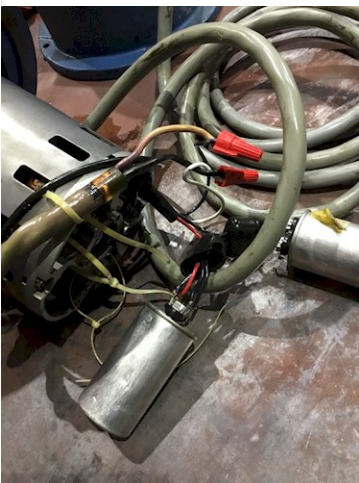
inches

Na

11. Air Gap Variation <10%

Na

12. Lead Condition (P) Pass



13. Lead Length 8 Inches

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


15. Lead Numbers

Na

16. Frame Condition pass

17. Fan Condition (N) NA

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18. Broken or Missing Components		
Na		
Initial Electrical Inspection		
19. Insulation Resistance/Megger	8000 Megohms	
20. Winding Resistance		
1-2	1-3	2-3
Na		
21. Perform Surge Test	(P) Pass	
22. Number of Stator Slots	40	
23. Stator Condition	wash and dry	
24. Stator Thermistors/Ohms		
Na		
25. Stator Overloads/Ohms		
Na		
Mechanical Inspection		
26. Drive End Bearing Brand	NSK	
27. Drive End Bearing Number-	6206	
		
28. Drive End Bearing Qty.	1	
29. Drive End Bearing Type	(Ball) Ball Bearing	
30. Drive End Lubrication Type	(Oil) Oil 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

normal wear



34. Opposite Drive End Bearing Brand

NSK

35. Opposite Drive End Bearing Number-

6204



36. Opposite Drive End Bearing Qty.

1

37. Opposite Drive End Bearing Type

(Ball) Ball Bearing

38. Opposite Drive End Lubrication Type

(Oil) Oil Lubricated

39. Opposite Drive End Bearing Insulation or Grounding Device?

na

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

wavy washer

41. Opposite Drive End Bearing Condition

normal wear



42. Drive End Seal

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Carbon ceramic



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

48



47. Rotor Condition

pass

48. List the Parts needed for the Repair Below

6206 6204 bearings

49. Signature of Technician that Disassembled Motor

RW



RW

Mechanical Fits- Rotor



50. Shaft Runout

inches







Na

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
	Na		
54.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	1.1816	1.1816	1.1816
			
55.	Drive End Bearing Shaft Fit Condition		(P) Pass
56.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	0.7877	0.7877	0.7877
			
57.	Opposite Drive End Bearing Shaft Fit Condition		(P) Pass

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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
2.4416		2.4416	2.4416
			
60. Drive End - Endbell Bearing Fit Condition			(P) Pass
61. Opposite Drive End - Endbell Bearing Fit			
0 Degrees		60 Degrees	120 Degrees
1.851		1.851	1.851
			
62. Opposite Drive End - Endbell Bearing Fit Condition			(P) Pass
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			

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65. List Machine Work Needed Below	Na	
66. Technician	RW	
		
Root Cause of Failure		
67. Failure locations	Seals	
68. Root cause of failure	Both capacitors, power cord, and seals.	
Dynamic Balance Report		
69. Rotor Weight and Balance Grade		
Rotor Weight	Balance Grade	
 Na		
70. Initial Balance Readings		
Drive End	Opposite Drive End	
 Na		
71. Final Balance Readings		
Drive End	Opposite Drive End	
 Na		
72. Technician		
 Na		
Assembly		
73. QC Check All Parts for Cleanliness Prior to Assembly	Trevor Hall	
		
74. Photograph All Major Components prior to assembly	(Complete) Complete	
75. Final Insulation Resistance Test	2000 Megohms	
76. Assembled Shaft Endplay	0.001 inches	
77. Assembled Shaft Runout	0.001 inches	
78. Test Run Voltage		
Volts	Volts	Volts
230	230	
79. Test Run Amperage		
Amps	Amps	Amps
6	6	
80. Drive End Vibration Readings - Inches Per Second		
Horizontal	Vertical	Axial
0.03	0.03	0.04

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81. Opposite Drive End Vibration Readings - Inches Per Second			
Horizontal		Vertical	Axial
0.03		0.03	0.04
82. Ambient Temperature - Fahrenheit			76
83. Drive End Bearing Temps - Fahrenheit			
5 Minutes		10 Minutes	15 Minutes
<div><div></div><div>Na</div></div>			
84. Opposite Drive End Bearing Temps - Fahrenheit			
5 Minutes		10 Minutes	15 Minutes
<div><div></div><div>Na</div></div>			
85. Document Final Condition with Pictures after paint			
86. Final Pics and QC Review			





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2. **PRICE.** All quoted prices shall remain firm and binding for a period of thirty (30) days from the date of quotation or for the period specifically stated in the quotation. The price for any and all goods and/or services ordered or approved by Buyer after thirty (30) days from the date of any quotation are subject to any increase in price that may occur after the expiration of thirty (30) days from the issuance of the quotation and the date the Buyer releases any shipment.
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4. **BILLING AND PAYMENT TERMS.** Hi-Speed shall invoice Buyer for all goods and/or services as same are rendered at the address listed on the quotation. Payments for all goods and/or services shall be due thirty (30) days from the date of the current invoice or as otherwise set forth in the quotation. Late payments are subject to a late fee of 5% of the total invoice amount. Recurring late payments may lead to a deposit requirement on future services or sale of goods. Buyer shall be liable to Hi-Speed for any and all fees and expenses incurred by Hi-Speed to collect any invoices or to enforce these Standard Terms and Conditions, including but not limited to, attorney's fees.
5. **DELIVERY OF GOODS AND/OR SERVICES.** Unless otherwise identified in the quotation, all shipments are F.O.B. Hi-Speed's warehouse and the title to and all risk of loss with respect to any goods shipped shall pass to Buyer when such goods are delivered to the carrier at Hi-Speed's warehouse. Hi-Speed will use its best efforts to affect delivery by the date or dates specified in the quotation. However, Hi-Speed shall not be liable for delay in or failure to make shipment, or to perform services, by any identified date for any reason whatsoever, including but not limited to, causes beyond its reasonable control, such as strikes, fires, floods, epidemics, quarantines, restrictions, severe weather, embargos, acts of God, or public enemy, war, riot, delays in transportation or the inability to obtain necessary labor, materials or manufacturing facilities.
6. **DELIVERY SITE AND TIME FOR PERFORMANCE.** Hi-Speed and Buyer agree that time is of the essence for the purchase order and that Buyer shall fully cooperate with Hi-Speed in order to allow Hi-Speed full access to prosecute its work diligently and in an orderly manner. Buyer shall assist Hi-Speed in every way possible to avoid delaying, disrupting or interfering with the progress of Hi-Speed's work at the project site. In the event Hi-Speed's work is delayed, hindered, suspended, disrupted, re-sequenced or interfered with or rendered less efficient or more costly or adversely affected in any way as a result of acts or omissions of Buyer or other contractors or employees of Buyer or by any other reason beyond Hi-Speed's control and without the fault of Hi-Speed, then, in such event, Buyer shall be liable to Hi-Speed for any damages, additional costs, expenses, labor, materials, man hours, acceleration costs, overtime, additional jobsite overhead, extended home office overhead, and any and all other direct and indirect expenses of whatsoever nature or kind, caused in whole or in part, as a result of any of the above-referenced occurrences. Hi-Speed's project records will be the basis for computing the additional costs and damages of Hi-Speed's labor, materials, expenses and overhead related to such changes. BUYER WARRANTS THAT THE SITE FOR DELIVERY OR INSTALLATION OF ANY GOODS AND/OR FOR THE PERFORMANCE OF ANY SERVICES SHALL BE READY AND ADEQUATE FOR HI-SPEED'S DELIVERY OF GOODS AND/OR PERFORMANCE OF SERVICES AND THAT HI-SPEED SHALL HAVE FULL ACCESS THERETO, FREE OF ALL OBSTRUCTIONS. BUYER SHALL ASSUME ALL EXTRA COSTS ASSOCIATED WITH HI-SPEED'S INABILITY TO INSTALL ANY GOODS OR PERFORM ANY SERVICES AS A RESULT OF BUYER'S FAILURE TO COMPLY WITH THIS PROVISION. HI-SPEED MAY NOT INSPECT THE SITE PRIOR TO DELIVERY AND/OR INSTALLATION OF GOODS AND/OR PERFORMANCE OF SERVICES AND MAKES NO WARRANTY AS TO THE SUFFICIENCY OF THE SITE FOR THE DELIVERY AND/OR INSTALLATION OF GOODS AND/OR THE PERFORMANCE OF SERVICES AT SUCH SITE.
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8. **WARRANTIES.** Hi-Speed warrants that all goods shall conform in all material aspects to the goods identified in the quotation to Buyer and/or purchase order, and Hi-Speed makes to Buyer the manufacturer's express warranty for any goods sold to Buyer, which is offered by the manufacturer at the time of acceptance of any quotation by Buyer. This warranty is conditioned upon the installation, operation, and maintenance of the goods in accordance with the manufacturer's recommendations and/or standard industry practice and the goods at all times being operated or used under normal operating conditions for which they were designed. Hi-Speed, at its sole option, will repair or

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11. **GOVERNING LAW AND JURISDICTION.** Any controversy arising out of any quotation, the purchase order, the goods sold or delivered, repair or replacement thereof, or any services provided pursuant to any quotation or any purchase order, or these Standard Terms and Conditions shall be governed by the laws of the state of Tennessee without regard to any choice of law provisions and any cause of action related in any manner thereto shall be brought only in the state or federal courts of Shelby County, Tennessee.
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