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— EVERY DAY SINCE 1946 —

Motor Shop Repairs

**Job Number 99612**

Prepared for Highland Pellets (012194)

5601 Industrial Dr North  
Pine Bluff AR 71602

# Table of Contents



Hi-Speed Industrial Service  
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## AC Recondition As Found

Highland Pellets (012194)

5601 Industrial Dr North  
Pine Bluff, AR 71602

FolderID: 99612  
FormID: 13268247



### AC Recondition - Rev. 2

Location: Shop  
Serial Number: 1053903892

Hi-Speed Job Number:	99612
Manufacturer:	WEG
Product Number:	10018ET3ERB405T-W22
Serial Number:	1053903892
HP/kW:	100 (HP)
RPM:	1780 (RPM)
Voltage:	230 / 460
Current:	226/113
Phase:	Three
Hz:	60 (Hz)
Enclosure:	TEFC
# of Leads:	6
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	04/06/2022
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Rewind:	Yes
Bearing Housing Machined	No
Fit Repairs Required:	
Heaters:	No
Bearing Type:	Rolling Element

Priorities Found: ● 3 - High ● 6 - Good

### Overall Condition

- |                      |            |
|----------------------|------------|
| 1. Report Date       | 04/06/2022 |
| 2. Nameplate Picture |            |



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1.0

### 3. Describe the Overall Condition of the Equipment as Received

*Covered in sawdust*



#### Initial Mechanical/Electrical

4. Does Shaft Turn Freely? (Yes) Yes

5. Does Shaft Have Visible Damage? (No) No



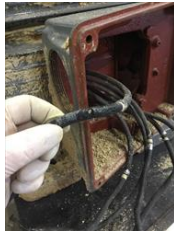
6. Assembled Shaft Runout 0.001 Inches

7. Assembled Shaft End Play 0.001 inches

8. Air Gap Variation <10%

9. Lead Condition (F) Fail

*Needs repaired. Leads are split*



10. Lead Length 18 Inches

11. Frame Condition pass



12. Fan Condition

(P) Pass



13. Broken or Missing Components

none

**Initial Electrical Inspection**

14. Insulation Resistance/Megger

2000 Megohms

15. Winding Resistance

1-2

1-3

2-3

16. Perform Surge Test

(F) Fail

17. Stator Condition

rewind

*Windings are showing shorted on surge tester*

**Mechanical Inspection**

18. Drive End Bearing Number-

nu316r



19. Drive End Bearing Qty.

1

20. Drive End Bearing Type

(Roller) Roller Bearing

21. Drive End Lubrication Type

(Grease) Grease Lubricated

22. Drive End Bearing Insulation or Grounding Device?

no

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

no

24. Drive End Bearing Condition

normal wear

25. Opposite Drive End Bearing Number-

6314 z



26. Opposite Drive End Bearing Qty.

1

27. Opposite Drive End Bearing Type

**(Ball) Ball Bearing**



28. Opposite Drive End Lubrication Type

**(Grease) Grease Lubricated**

29. Opposite Drive End Bearing Insulation or Grounding Device?

**no**

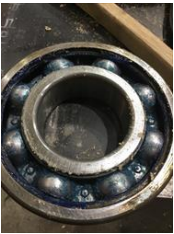
30. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?

**snap ring**



31. Opposite Drive End Bearing Condition

**normal wear**



32. Drive End Seal

**slinger**



33. Opposite Drive End Seal

**slinger**



## Rotor Inspection

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34. Rotor Type/Material

(Squirrel Aluminum) Squirrel  
Cage Aluminum Die Cast



35. Growler Test (Pass) Pass

36. Number of Rotor Bars 40

37. Rotor Condition pass

38. List the Parts needed for the Repair Below

NU316r  
6314 z

39. Signature of Technician that Disassembled Motor Trevor Hall

#### Mechanical Fits- Rotor

40. Shaft Runout 0.001 inches

41. Rotor Runout

Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
0.001	0.001	0.001

42. Coupling Fit Closest to Bearing Housing

0 Degrees	90 Degrees	120 Degrees

43. Coupling Fit Closest to the end of the Shaft

0 Degrees	60 Degrees	120 Degrees

44. Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
3.1511	3.1512	3.1511

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

46. Opposite Drive End Bearing Shaft Fit





0 Degrees	60 Degrees	120 Degrees
2.7567	2.7565	2.7566

47. Opposite Drive End Bearing Shaft Fit Condition (P) Pass

48. Shaft Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal

#### Mechanical Fits- Bearing Housings

49. Drive End - Endbell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
6.6939	6.6939	6.6939
		
50. Drive End - Endbell Bearing Fit Condition (P) Pass		
51. Opposite Drive End - Endbell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
5.9064	5.9064	5.9063
		
52. Opposite Drive End - Endbell Bearing Fit Condition (P) Pass		
53. Bearing Cap Condition		
Drive End Bearing Cap	Opposite Drive End Bearing Cap	
pass	pass	
		
54. End Bell Air Seal Fits		
Drive End Air Seal	Opposite Drive End Air Seal	
55. List Machine Work Needed Below None		
56. Technician		Trevor Hall
		





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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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12. **ABANDONED EQUIPMENT.** Hi-Speed requires that Buyer promptly pick up or provide shipment instructions for Buyer equipment or other Buyer property in Hi-Speed's possession. If equipment or other Buyer property is left with Hi-Speed and not picked up within six (6) months after Hi-Speed's final action related to the applicable property (e.g. evaluation, teardown, estimate, completion of services), Hi-Speed will consider such property abandoned and may dispose of it in accordance with applicable law. Buyer agrees to hold Hi-Speed harmless for any damage or claim for such abandoned property and acknowledges that Hi-Speed may discard or recycle it at Hi-Speed's sole and absolute discretion. Specifically, Hi-Speed may sell Buyer's abandoned property at a private or public sale and retain the proceeds to offset Hi-Speed's storage, inspection and servicing costs. For the avoidance of doubt, Hi-Speed reserves its statutory and other lawful liens for unpaid charges related to abandoned property.
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