



AC Inspection as Found

Tyson Foods (10914)

1238 Market Street
Clarksville, AR 72830

FolderID: 104128
FormID: 23360165

AC Inspection - Rev. 2

Location: MOTOR SHOP LR

Serial Number:

Description: 5 HP PUMP
GOULDS WATER TECHNOLOGY

Hi-Speed Job Number: 104128

Manufacturer: Other

Product Number: WS5012D4

HP/kW: 5 (HP)

RPM: 1725 (RPM)

Voltage: Other

Current: 26.5 (Amps)

Phase: Single

Hz: 60 (Hz)

Service Factor: 1

Enclosure: Submersible

of Leads: Other

J-box Included: None

Coupling/Sheave: None

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final

Rewind: Yes

**Shaft Machined Fit Repairs
Required:** No

**Bearing Housing Machined
Fit Repairs Required:** Yes

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found: 4 - High 7 - Good

Overall Condition



1. Report Date

02/13/2025

2. Nameplate Picture

WEG

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Sn: 1076937356

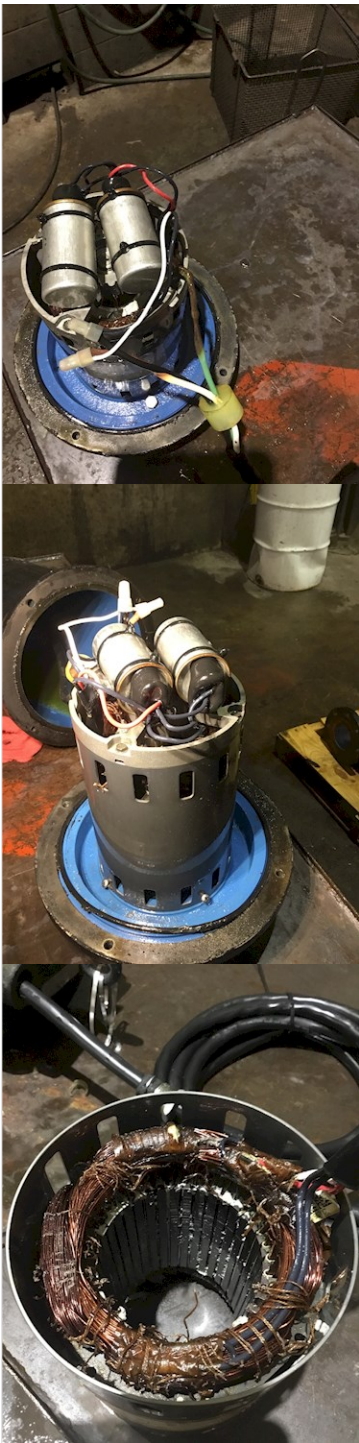


3. Photos of all six sides of the machine.

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Power cord



4. Describe the Overall Condition of the Equipment as Received
Debris has impeller locked up.

Initial Mechanical/Electrical



5.	Does Shaft Turn Freely?	(N) No
6.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
7.	Does Shaft Have Visible Damage?	(No) No
8.	Assembled Shaft Runout	Inches
	<i>Locked up, unable to perform</i>	
9.	Assembled Shaft End Play	inches
10.	Air Gap Variation <10%	



12. Lead Length 10 Inches

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

Terminals

14. Lead Numbers

Not numbered

15. Frame Condition pass

16. Fan Condition

17. Does motor have internal fan? (No) No

18. Broken or Missing Components none

Initial Electrical Inspection



19. Insulation Resistance/Megger Megohms

Rewind

20. Winding Resistance

1-2

1-3

2-3

Rewind

21. Perform Surge Test

(F) Fail

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22. Number of Stator Slots 36

23. Stator Condition rewind

24. Stator Thermistors/Ohms

25. Stator Overloads/Ohms

Mechanical Inspection



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27. Drive End Bearing Number-

6206 Z C3

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?

none

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

none

33. Drive End Bearing Condition

replace

34. Opposite Drive End Bearing Brand

Koyo

35. Opposite Drive End Bearing Number-

6204 Z

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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?

none

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

wavy washer

41. Opposite Drive End Bearing Condition

replace

42. Drive End Seal

☒ Viton elastomer & Tungsten

43. Opposite Drive End Seal

☒ Carbon ceramic with viton elastomer

Rotor Inspection

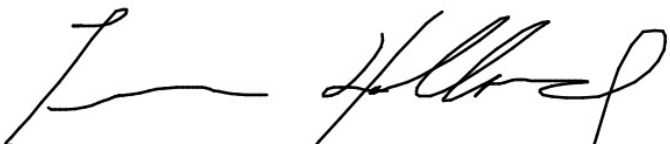
44. Rotor Type/Material



(Squirrel Aluminum) Squirrel
Cage Aluminum Die Cast







45. Growler Test

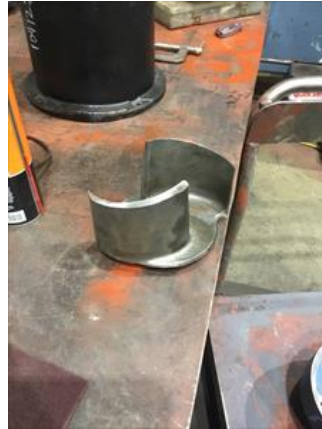
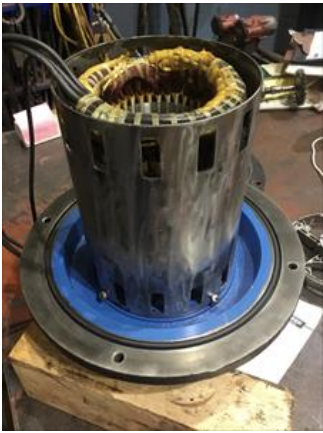
(Pass) Pass

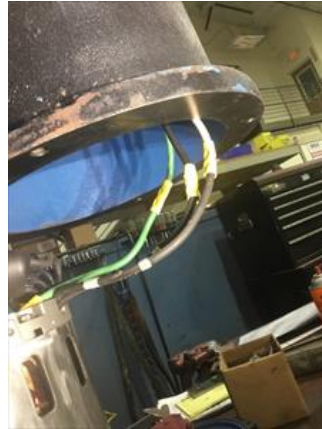
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46.	Number of Rotor Bars	48
47.	Rotor Condition	pass
48.	List the Parts needed for the Repair Below <i>Rewind stator. Replace bearings: 6206Z & 6204Z</i> <i>Replace both capacitors and O-rings plus power cord grommet</i> <i>Inner seal: Carbon-Ceramic with viton elastomer OD 1.7575: ID 1.1250</i> <i>Outer seal: Tungsten with viton elastomer: OD 1.7575: ID 1.1250</i>	
49.	Signature of Technician that Disassembled Motor	Terrence Holland
		
<input type="checkbox"/> Co sign:		
Mechanical Fits- Rotor		
50.	Shaft Runout	0.001 inches
51.	Rotor Runout	
	Drive End Bearing Fit	Opposite Drive End Bearing
52.	Coupling Fit Closest to Bearing Housing	
	0 Degrees	120 Degrees
	90 Degrees	
53.	Coupling Fit Closest to the end of the Shaft	
	0 Degrees	120 Degrees
	60 Degrees	
54.	Drive End Bearing Shaft Fit	
	0 Degrees	120 Degrees
	1.1814	1.1814
55.	Drive End Bearing Shaft Fit Condition	(P) Pass
56.	Opposite Drive End Bearing Shaft Fit	
	0 Degrees	120 Degrees
	0.07874	0.7873
57.	Opposite Drive End Bearing Shaft Fit Condition	(P) Pass
58.	Shaft Air Seal Fits	
	Drive End Air Seal	Opposite Drive End Air Seal
Mechanical Fits- Bearing Housings		
59.	Drive End - Endbell Bearing Fit	
	0 Degrees	120 Degrees
	2.442	2.4421
60.	Drive End - Endbell Bearing Fit Condition	(F) Fail
61.	Opposite Drive End - Endbell Bearing Fit	
	0 Degrees	120 Degrees
	1.8509	1.8508
62.	Opposite Drive End - Endbell Bearing Fit Condition	(P) Pass
63.	Bearing Cap Condition	
	Drive End Bearing Cap	Opposite Drive End Bearing Cap

64.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
65.	List Machine Work Needed Below <i>D.E. Housing fit</i>		
66.	Technician		Terrence Holland
			
	<input type="checkbox"/> Co sign RW		
Root Cause of Failure			
67.	Failure locations <i>Windings</i> <i>D.E. housing fit</i>		
68.	Root cause of failure <i>Outer seal failure due to excessive debris, allowed water to penetrate the stator windings causing shorted windings.</i>		
Dynamic Balance Report			
69.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
70.	Initial Balance Readings		
	Drive End	Opposite Drive End	
71.	Final Balance Readings		
	Drive End	Opposite Drive End	
72.	Technician		Terrence Holland
			
Rewind			
73.	Core Test Results - Watts loss per Pound		
	Pre-Burnout	Post Burnout	
74.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
75.	Post Rewind Electrical Test- Insulation Resistance		Megohms
76.	Post Rewind Polarization Index		Polarization Index
77.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
78.	Post Rewind Surge Test		

79.	Post Rewind Hi-Pot	micro-amps	
80.	Technician		
Mechanical Fits- Bearing Housings - Post Repair 			
81.	Drive End - Endbell Bearing Fit Post Repair		P5
	0 Degrees	60 Degrees	120 Degrees
	2.4413	2.4413	2.4413
			
82.	Opposite Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
83.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
84.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
85.	End Bell Repair Sign-off	Gary	
			
Assembly 			
86.	QC Check All Parts for Cleanliness Prior to Assembly	Terrence Holland	
			
 See pics below.			
87.	Photograph All Major Components prior to assembly	P17	







0833 hrs.

0845hrs





88.	Final Insulation Resistance Test	Megohms	
89.	Assembled Shaft Endplay	0 inches	
90.	Assembled Shaft Runout	0.002 inches	
91.	Test Run Voltage		
	Volts	Volts	Volts
	227	228	






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No load

92.	Test Run Amperage		
	Amps	Amps	Amps
	6.2	6	

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93.	Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
94.	Opposite Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
95.	Ambient Temperature - Fahrenheit		
96.	Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
97.	Opposite Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
98.	Document Final Condition with Pictures after paint		
	<div></div>		
99.	Final Pics and QC Review		Terrence Holland
			
	<div> Witness: CRW</div>		