



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

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 ● 6 - Good

Overall Condition



1. Report Date 02/13/2025

2. Nameplate Picture WEG P37

Sn: 1076937356



Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.







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

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

10.	Air Gap Variation <10%		
● 11.	Lead Condition	(F) Fail	P69
			
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	P57
			
22.	Number of Stator Slots	36	
23.	Stator Condition	rewind	
24.	Stator Thermistors/Ohms		
25.	Stator Overloads/Ohms		

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

Mechanical Inspection



26. Drive End Bearing Brand

Koyo

P12



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

P99



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

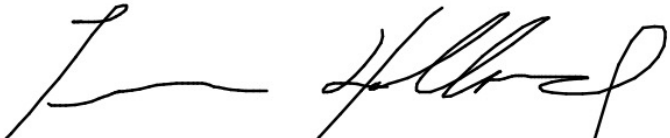
 Viton elastomer & Tungsten

43. Opposite Drive End Seal

 Carbon ceramic with viton elastomer

Rotor Inspection

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

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 <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	Rotor Body	Opposite Drive End Bearing	
52. Coupling Fit Closest to Bearing Housing			
0 Degrees	90 Degrees	120 Degrees	
53. Coupling Fit Closest to the end of the Shaft			
0 Degrees	60 Degrees	120 Degrees	
54. Drive End Bearing Shaft Fit			
0 Degrees	60 Degrees	120 Degrees	
1.1814	1.1815	1.1814	
55. Drive End Bearing Shaft Fit Condition	(P) Pass		
56. Opposite Drive End Bearing Shaft Fit			
0 Degrees	60 Degrees	120 Degrees	
0.07874	0.7875	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	60 Degrees	120 Degrees	
2.4472	2.447	2.4471	
60. Drive End - Endbell Bearing Fit Condition	(F) Fail		
61. Opposite Drive End - Endbell Bearing Fit			
0 Degrees	60 Degrees	120 Degrees	
0.7874	0.7875	0.7873	
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	
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	
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	
76.	Post Rewind Polarization Index	
77.	Post Rewind Winding Resistance	
	1-2	1-3 2-3
78.	Post Rewind Surge Test	
79.	Post Rewind Hi-Pot	
80.	Technician	
Mechanical Fits- Bearing Housings - Post Repair		

81.	Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
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		
Assembly			
86.	QC Check All Parts for Cleanliness Prior to Assembly		
87.	Photograph All Major Components prior to assembly		
88.	Final Insulation Resistance Test		
89.	Assembled Shaft Endplay		
90.	Assembled Shaft Runout		
91.	Test Run Voltage		
	Volts	Volts	Volts
92.	Test Run Amperage		
	Amps	Amps	Amps
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		
99.	Final Pics and QC Review		