

# AC Recondition Repair Report

FolderID: 97720  
 FormID: 9743225

**Welspun Tubular (11685)**  
 9301 Frazier Pike  
 Little Rock, AR 72206

Priorities Found: ● 1 - High    ● 13 - Good

## General

1. Job Number	97720
2. Report Date	
3. Customer	Welspun

## Name Plate Information

4. Manufacturer	Rodgau	P5
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5. Model	<b>FOM160L-4</b>
6. Serial Number	<b>06062662</b>
7. Horsepower	<b>18 HP</b>
8. KW	
9. Volts	<b>480 Volts</b>
10. Amps	<b>16.5 Amps</b>
11. RPM	<b>1752 RPM</b>
12. Frame	<b>160L</b>
13. Enclosure	<b>TEFC</b>
14. Cycles	<b>60 HZ</b>
15. Phase	<b>3 PH</b>

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- 16. Service Factor
- 17. Motor Mount Position

**Initial Inspection**



- 18. Number of Leads

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- 19. Lead Length
- 20. Lead Size
- 21. Lead Condition
- 22. Lead Markings
- 23. Lug Size, Condition, and Type
- 24. Winding RTD's
- 25. Winding Rtd's Condition
- 26. Shaft Run Out
- 27. Does Shaft Turn Freely
- 28. Does Shaft Have Visible Damage

**no**

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- 29. Bearing Rtd's
- 30. Bearing Rtd's Condition
- 31. Contamination
- 32. Frame Condition

**(P) Pass**

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33. Fan Condition

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34. Broken or missing components

**Initial Electric Test**



- 35. Resistance to Ground
- 36. Winding Resistance 1-2
- 37. Winding Resistance 2-3
- 38. Winding Resistance 1-3
- 39. Resistive Imbalance
- 40. Hi-Pot

41. Surge Test

(P) Pass

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42. Stator Condition

good

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43. Failure Location

Initial Rotor Inspection



44. Rotor Type

squirrel cage

P4



45. Air Gap <10% Variation

46. Number of Rotor Bars

47. Number of Broken Rotor Bars

0

● 48. Growler Test

(P) Pass

● 49. Rotor Condition

(P) Pass

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### Mechanical Inspection



50. Bearing Manufacture

nsk

P1



51. Bearing DE Size

6309

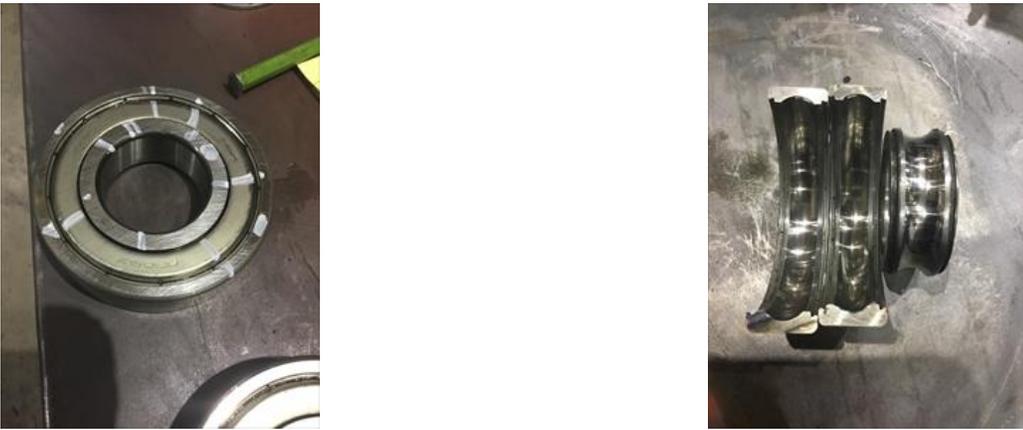
52. Bearing DE Type

ball bearing

53. DE Bearing Qty.

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54. Bearing ODE Size	6309	
55. Bearing ODE Type	ball bearing	P53
		
56. ODE Bearing Qty.	1	
57. Insulated Bearing		
58. Lubrication Type	grease	
● 59. Grease Condition	(F) Fail	
● 60. Bearing Retainers	(Y) Yes	P80
		
61. Shaft Grounding Device	(NA) Not Applicable	
● 62. DE Seal	(Y) Yes	
63. DE Seal Type/Size	45*62*12	P90
		
● 64. ODE Seal	(Y) Yes	

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### Root Cause of Failure

66. Component Failure	<b>bearings</b>
67. Cause of Failure <i>Worn/dirty/contaminated grease</i>	
68. Comments <i>Recondition motor.</i>	
69. Service Technician	<b>Terrence Holland</b>
	

### Machine Fit Inspection Report



● 70. Shaft Run Out	<b>(P) Pass</b>
71. Initial Shaft Run Out	<b>0.002 "</b>
72. Final Shaft Run Out	
● 73. DE Bearing Shaft Fit	<b>(P) Pass</b>
74. DE Initial Shaft Bearing Fit Size 1	<b>1.772 "</b>
75. DE Initial Shaft Bearing Fit Size 2	<b>1.772 "</b>
76. DE Initial Shaft Bearing Fit Size 3	<b>1.772 "</b>
77. DE Final Shaft Bearing Fit Size 1	
78. DE Final Shaft Bearing Fit Size 2	
79. DE Final Shaft Bearing Fit Size 3	
● 80. ODE Bearing Shaft Fit	<b>(P) Pass</b>
81. ODE Initial Shaft Bearing Fit Size 1	<b>1.7718 "</b>
82. ODE Initial Shaft Bearing Fit Size 2	<b>1.7717 "</b>
83. ODE Initial Shaft Bearing Fit Size 3	<b>1.7716 "</b>
84. ODE Final Shaft Bearing Fit Size 1	
85. ODE Final Shaft Bearing Fit Size 2	
86. ODE Final Shaft Bearing Fit Size 3	
87. DE Air Seal Shaft Fit	
88. DE Initial Air Seal Shaft Size	
89. DE Final Air Seal Shaft Size	
90. ODE Air Seal Shaft Fit	

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91.	ODE Initial Air Seal Shaft Size	
92.	ODE Final Air Seal Shaft Size	
● 93.	DE Endbell Fit	<b>(P) Pass</b>
94.	DE Initial Endbell Fit Size 1	<b>3.9368 "</b>
95.	DE Initial Endbell Fit Size 2	<b>3.937 "</b>
96.	DE Initial Endbell Fit Size 3	<b>3.9372 "</b>
97.	DE Final Endbell Fit Size 1	
98.	DE Final Endbell Fit Size 2	
99.	DE Final Endbell Fit Size 3	
100.	DE Endbell Fit Insulated	
101.	DE Endbell Air Seal Fit	
102.	Initial Endbell Air Seal Fit Size	
103.	Final Endbell Air Seal Fit Size	
● 104.	ODE Endbell Fit	<b>(P) Pass</b>
105.	ODE Initial Endbell Fit Size 1	<b>3.9372 "</b>
106.	ODE Initial Endbell Fit Size 2	<b>3.9371 "</b>
107.	ODE Initial Endbell Fit Size 3	<b>3.9372 "</b>
108.	ODE Final Endbell Fit Size 1	
109.	ODE Final Endbell Fit Size 2	
110.	ODE Final Endbell Fit Size 3	
111.	ODE Endbell Fit Insulated	
112.	ODE Endbell Air Seal Fit	
113.	ODE Initial Endbell Seal Fit Size	
114.	ODE Final Endbell Seal Fit Size	
115.	Foot Flatness	<b>(NA) Not Applicable</b>
116.	Foot Condition	<b>(NA) Not Applicable</b>
● 117.	Flange Condition	<b>(P) Pass</b>

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118. Service Technician

**Terrence Holland**

### Balancing Report

119. Balance Type

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120. Balance Operating Speed
121. Start Left End
122. Start Right End
123. Balancing Specification
124. Finish Left End
125. Finish Right End
126. Service Technician
<b>Assembly and Final Test</b>
127. Meggar Testing Reading
128. Surge Test
129. Hi-Pot
130. Winding Resistance 1-2
131. Winding Resistance 2-3
132. Winding Resistance 1-3
133. Test Run Voltage Phase A
134. Test Run Amps A
135. Test Run Voltage Phase B
136. Test Run Amps B
137. Test Run Voltage Phase C
138. Test Run Amps C
139. DE Horizontal Vibration Reading
140. DE Vertical Vibration Reading
141. DE Axial Vibration Reading
142. ODE Horizontal Vibration Reading
143. ODE Vertical Vibration Reading
144. ODE Axial Vibration Reading
145. Ambient Temp at start of Test Run
146. Temp at 5 minutes
147. Temp at 10 minutes
148. Temp at 15 minutes
149. Temp at 20 minutes
150. Temp at 25 minutes
151. Temp at 30 minutes
152. Temp at 35 minutes
153. Temp at 40 minutes
154. Temp at 45 minutes
155. Temp at 50 minutes
156. Temp at 55 minutes
157. Temp at 60 minutes
158. Motor Paint
159. Service Technician

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