



AC Inspection as Found

Welspun Tubular (11685)

9301 Frazier Pike
Little Rock, AR 72206

FolderID: 101138
FormID: 16308069

AC Inspection - Rev. 2

Location: LR MOTORSHOP

Serial Number: 525286/01

Description: 2.2KW HAMMELMANN 3600RPM

Hi-Speed Job Number: 101138

Manufacturer: Other

Product Number: 00.00124.0183-002

Serial Number: 525286/01

HP/kW: 2.2 (kW)

RPM: 2870 (RPM)

Voltage: 460

Current: 4.9

Phase: Three

Hz: 50 (Hz)

Enclosure: TENV

J-box Included: None

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Overall Condition



1. Report Date

2. Nameplate Picture



3. Photos of all six sides of the machine.
4. Describe the Overall Condition of the Equipment as Received
5. Distance from the end of the shaft to the Coupling/Sheave

Initial Mechanical/Electrical

6. Does Shaft Turn Freely?
7. Does Shaft Have Visible Damage?
8. Assembled Shaft Runout
9. Assembled Shaft End Play
10. Air Gap Variation <10%
11. Lead Condition

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12.	Lead Length		
13.	Frame Condition		
14.	Fan Condition		
15.	Broken or Missing Components		
Initial Electrical Inspection			
16.	Insulation Resistance/Megger		
17.	Winding Resistance		
	1-2	1-3	2-3
18.	Perform Surge Test		
19.	Number of Stator Slots		
20.	Stator Condition		
Mechanical Inspection			
21.	Drive End Bearing Brand		
22.	Drive End Bearing Number-		
23.	Drive End Bearing Qty.		
24.	Drive End Bearing Type		
25.	Drive End Lubrication Type		
26.	Drive End Bearing Insulation or Grounding Device?		
27.	Drive End Wavy Washer/Snap-Ring Other Retention Device?		
28.	Drive End Bearing Condition		
29.	Opposite Drive End Bearing Brand		
30.	Opposite Drive End Bearing Number-		
31.	Opposite Drive End Bearing Qty.		
32.	Opposite Drive End Bearing Type		
33.	Opposite Drive End Lubrication Type		
34.	Opposite Drive End Bearing Insulation or Grounding Device?		
35.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?		
36.	Opposite Drive End Bearing Condition		
37.	Drive End Seal		
38.	Opposite Drive End Seal		
Rotor Inspection			
39.	Rotor Type/Material		
40.	Growler Test		
41.	Number of Rotor Bars		
42.	Rotor Condition		
43.	List the Parts needed for the Repair Below		
44.	Signature of Technician that Disassembled Motor		
Mechanical Fits- Rotor			
45.	Shaft Runout		
46.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
47.	Coupling Fit Closest to Bearing Housing		
	0 Degrees	90 Degrees	120 Degrees

48.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
49.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
50.	Drive End Bearing Shaft Fit Condition		
51.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
52.	Opposite Drive End Bearing Shaft Fit Condition		
53.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
Mechanical Fits- Bearing Housings			
54.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
55.	Drive End - Endbell Bearing Fit Condition		
56.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
57.	Opposite Drive End - Endbell Bearing Fit Condition		
58.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
59.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
60.	List Machine Work Needed Below		
61.	Technician		
Dynamic Balance Report			
62.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
63.	Initial Balance Readings		
	Drive End	Opposite Drive End	
64.	Final Balance Readings		
	Drive End	Opposite Drive End	
65.	Technician		
Rewind			
66.	Core Test Results - Watts loss per Pound		
	Pre-Burnout	Post Burnout	

67.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
68.	Post Rewind Electrical Test- Insulation Resistance		
69.	Post Rewind Polarization Index		
70.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
71.	Post Rewind Surge Test		
72.	Post Rewind Hi-Pot		
73.	Technician		
Root Cause of Failure			
74.	Failure locations		
75.	Root cause of failure		
Mechanical Fits- Rotor - Post Repair			
76.	Shaft Runout Post Repair		
77.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
78.	Coupling Fit Closest to Bearing Housing Post Repair		
	0 Degrees	90 Degrees	120 Degrees
79.	Coupling Fit Closest to the end of the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees
80.	Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
81.	Opposite Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
82.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
83.	Shaft Repair Sign-off		
Mechanical Fits- Bearing Housings - Post Repair			
84.	Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
85.	Opposite Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
86.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	

87. End Bell Air Seal Fits Post Repair			
Drive End Air Seal		Opposite Drive End Air Seal	
88. End Bell Repair Sign-off			
Assembly			
89. QC Check All Parts for Cleanliness Prior to Assembly			
90. Photograph All Major Components prior to assembly			
91. Final Insulation Resistance Test			
92. Assembled Shaft Endplay			
93. Assembled Shaft Runout			
94. Test Run Voltage			
Volts	Volts	Volts	
95. Test Run Amperage			
Amps	Amps	Amps	
96. Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical	Axial	
97. Opposite Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical	Axial	
98. Ambient Temperature - Fahrenheit			
99. Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
100. Opposite Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
101. Document Final Condition with Pictures after paint			
102. Final Pics and QC Review		Terrence Holland	P102
			

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