

# EVERY DAY SINCE 1946

**Motor Shop Repairs** 

## Job Number 97756

Prepared for Jeffrey Sand Company (010165)

2200 Lincoln N. Little Rock AR 72114

### Table of Contents

AC Recondition Repair Report



FolderID: 97756

FormID: 9794305

#### **AC Recondition Repair Report**

Jeffrey Sand Company (010165)

2200 Lincoln N. Little Rock, AR 72114

Priorities Found: 🌒 7 - High 🛛 🕚 11 - Good			
General			
1. Job Number		97756	
2. Report Date			
3. Customer		JEFFREY SAND	
Name Plate Information			

4. Manufacturer











14. Cycles	60
15. Phase	3
16. Service Factor	1.15
17. Motor Mount Position	F1
Initial Inspection	
18. Number of Leads	6
19. Lead Length	8 Inches
20. Lead Size	4
21. Lead Condition	(F) Fail



22.	Lead Markings	none
23.	Lug Size, Condition, and Type	
	4 awg	
24.	Winding RTD's	
25.	Winding Rtd's Condition	
26.	Shaft Run Out	0.001
27.	Does Shaft Turn Freely	yes
28.	Does Shaft Have Visible Damage	no
29.	Bearing Rtd's	
30.	Bearing Rtd's Condition	
31.	Contamination	
	Water	
32.	Frame Condition	(P) Pass



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

#### 42. Stator Condition







#### 43. Failure Location **Initial Rotor Inspection**

44. Rotor Type



45.	Air Gap <10% Variation	
46.	Number of Rotor Bars	46
47.	Number of Broken Rotor Bars	0
48.	Growler Test	(P) Pass
49.	Rotor Condition	(P) Pass

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leads

cast aluminum

#### **Mechanical Inspection**

- 50. Bearing Manufacture
- 51. Bearing DE Size

skf 6318c3



52. Bearing DE Type



53. DE Bearing Qty.

54. Bearing ODE Size



55. Bearing ODE Type

ball

6316c3

ball

1



56.	ODE Bearing Qty.	1
57.	Insulated Bearing	no
58.	Lubrication Type	grease
59.	Grease Condition	(F) Fail
<b>.</b>	Water contamination	



60. Bearing Retainers





(Y) Yes







61.	Shaft Grounding Device	(N) No
62.	DE Seal	
63.	DE Seal Type/Size	
64.	ODE Seal	
65.	ODE Seal Type/Size	
Root	Cause of Failure	
66.	Component Failure	leads, bearings, both end bells
67.	Cause of Failure	
	Bad connection and motor has had water inside	
68.	Comments	
00	Comies Technician	Traver Hall
69.	Service Technician	Trevor Hall
	Service Technician	Trevor Hall
Mach	/-/M	Trevor Hall (P) Pass
Mach	ine Fit Inspection Report Shaft Run Out	
<b>Mach</b> 70. 71.	ine Fit Inspection Report Shaft Run Out	(P) Pass
<b>Mach</b> 70. 71.	ine Fit Inspection Report Shaft Run Out Initial Shaft Run Out Final Shaft Run Out	(P) Pass 0.001 "

75.	DE Initial Shaft Bearing Fit Size 2	3.5439 "
76.	DE Initial Shaft Bearing Fit Size 3	3.544 "
77.	DE Finial Shaft Bearing Fit Size 1	
78.	DE Finial Shaft Bearing Fit Size 2	
79.	DE Finial Shaft Bearing Fit Size 3	
80.	ODE Bearing Shaft Fit	(P) Pass
81.	ODE Initial Shaft Bearing Fit Size 1	3.1497 "
82.	ODE Initial Shaft Bearing Fit Size 2	3.1498 "
83.	ODE Initial Shaft Bearing Fit Size 3	3.1498 "
84.	ODE Finial Shaft Bearing Fit Size 1	
85.	ODE Finial Shaft Bearing Fit Size 2	
86.	ODE Finial 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	
91.	ODE Initial Air Seal Shaft Size	
92.	ODE Final Air Seal Shaft Size	
<b>9</b> 3.	DE Endbell Fit	(F) Fail

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94.	DE Initial Endbell Fit Size 1	7.4829 "
95.	DE Initial Endbell Fit Size 2	7.483 "
96.	DE Initial Endbell Fit Size 3	7.4831 "
97.	DE Final Endbell Fit Size 1	
98.	DE Finial Endbell Fit Size 2	
99.	DE Final Endbell Fit Size 3	
100.	DE Endbell Fit Insulated	(N) No
101.	DE Endbell Air Seal Fit	
102.	Initial Endbell Air Seal Fit Size	
103.	Finial Endbell Air Seal Fit Size	
104.	ODE Endbell Fit	(F) Fail



105. ODE Initial Endbell Fit Size 1	6.695 "
106. ODE Initial Endbell Fit Size 2	6.6951 "
107. ODE Initial Endbell Fit Size 3	6.6952 "
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	(N) No
112. ODE Endbell Air Seal Fit	
113. ODE Initial Endbell Seal Fit Size	
114. ODE Finial Endbell Seal Fit Size	
115. Foot Flatness	(P) Pass
116. Foot Condition	(P) Pass
117. Flange Condition	(P) Pass
- All	
Balancing Report	
119. Balance Type	
120. Balance Operating Speed	
121. Start Left End	
122. Start Right End	
123. Balancing Specification	
<ul><li>123. Balancing Specification</li><li>124. Finish Left End</li></ul>	

# 126. Service Technician Assembly and Final Test 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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**TermsAndConditions** 

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