



KEEPING YOUR FACILITY UP TO SPEED
— EVERY DAY SINCE 1946 —

Motor Shop Repairs

Job Number 97700

Prepared for LOMANCO

2101 WEST MAIN ST
JACKSONVILLE AR 72076

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AC Recondition Repair Report

1.0

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7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

AC Recondition Repair Report

LOMANCO
2101 WEST MAIN ST
JACKSONVILLE, AR 72076

Performed By: Motor Shop LR 2
Date Completed: 1/20/2021

FolderID: 97700
FormID: 9679858

Priorities Found: ● 1 - High ● 8 - Good

General

1. Job Number	97700
2. Report Date	
3. Customer	LOMANCO

Name Plate Information

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4. Manufacturer

K.O. LFE



5. Model	13943E
6. Serial Number	10T01REDUCTION
7. Horsepower	HP
8. KW	
9. Volts	220 Volts
10. Amps	0.36 Amps
11. RPM	
12. Frame	
13. Enclosure	TENV

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14. Cycles	60 HZ
15. Phase	3 PH
16. Service Factor	
17. Motor Mount Position	
Initial Inspection	
18. Number of Leads	3



19. Lead Length	6 Inches
20. Lead Size	18
21. Lead Condition	(NA) Not Applicable
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	yes
28. Does Shaft Have Visible Damage	
29. Bearing Rtd's	(NA) Not Applicable
30. Bearing Rtd's Condition	(NA) Not Applicable
31. Contamination	
32. Frame Condition	(P) Pass
33. Fan Condition	(NA) Not Applicable
34. Broken or missing components	

Initial Electric Test	
35. Resistance to Ground	0 Mohm
36. Winding Resistance 1-2	
37. Winding Resistance 2-3	
38. Winding Resistance 1-3	
39. Resistive Imbalance	
40. Hi-Pot	
41. Surge Test	(F) Fail

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42. Stator Condition

rewind



43. Failure Location

Initial Rotor Inspection

44. Rotor Type **cast aluminum**

45. Air Gap <10% Variation

46. Number of Rotor Bars

47. Number of Broken Rotor Bars

48. Growler Test

● 49. Rotor Condition **(P) Pass**

Mechanical Inspection

50. Bearing Manufacture **FAFNIR ON MOTOR SLEEVE
ON GEARBOX**

51. Bearing DE Size **2267875**



52. Bearing DE Type **ball**

53. DE Bearing Qty. **1**

54. Bearing ODE Size **38kvtd**

55. Bearing ODE Type

ball



56. ODE Bearing Qty.	1
57. Insulated Bearing	no
58. Lubrication Type	both sleeves on gearbox are bad
59. Grease Condition	(NA) Not Applicable
60. Bearing Retainers	
61. Shaft Grounding Device	(NA) Not Applicable
62. DE Seal	(NA) Not Applicable
63. DE Seal Type/Size	63X87



64. ODE Seal	(NA) Not Applicable
65. ODE Seal Type/Size	63X49



Root Cause of Failure

66. Component Failure

out put gearbox shaft bearing
and seal fits bad



67. Cause of Failure

68. Comments

69. Service Technician

Machine Fit Inspection Report

70. Shaft Run Out

71. Initial Shaft Run Out

72. Final Shaft Run Out

73. DE Bearing Shaft Fit (P) Pass

74. DE Initial Shaft Bearing Fit Size 1 "

75. DE Initial Shaft Bearing Fit Size 2

76. DE Initial Shaft Bearing Fit Size 3

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

82. ODE Initial Shaft Bearing Fit Size 2

83. ODE Initial Shaft Bearing Fit Size 3

84. ODE Finial Shaft Bearing Fit Size 1

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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	
● 93.	DE Endbell Fit	(P) Pass
94.	DE Initial Endbell Fit Size 1	
95.	DE Initial Endbell Fit Size 2	
96.	DE Initial Endbell Fit Size 3	
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	
101.	DE Endbell Air Seal Fit	
102.	Initial Endbell Air Seal Fit Size	
103.	Finial Endbell Air Seal Fit Size	
● 104.	ODE Endbell Fit	(P) Pass
105.	ODE Initial Endbell Fit Size 1	
106.	ODE Initial Endbell Fit Size 2	
107.	ODE Initial Endbell Fit Size 3	
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 Finial Endbell Seal Fit Size	
● 115.	Foot Flatness	(P) Pass
116.	Foot Condition	
117.	Flange Condition	
118.	Service Technician	RW
Balancing Report		
119.	Balance Type	
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	
Assembly and Final Test		

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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

227 Volts



134. Test Run Amps A

0.2 Amps

135. Test Run Voltage Phase B

226 Volts



136. Test Run Amps B

0.3 Amps

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137. Test Run Voltage Phase C

227 Volts



138. Test Run Amps C

0.2 Amps

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

(P) Pass



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5. **DELIVERY OF GOODS AND/OR SERVICES.** Unless otherwise identified in the quotation, all shipments are F.O.B. Hi-Speed's warehouse and the title to and all risk of loss with respect to any goods shipped shall pass to Buyer when such goods are delivered to the carrier at Hi-Speed's warehouse. Hi-Speed will use its best efforts to affect delivery by the date or dates specified in the quotation. However, Hi-Speed shall not be liable for delay in or failure to make shipment, or to perform services, by any identified date for any reason whatsoever, including but not limited to, causes beyond its reasonable control, such as strikes, fires, floods, epidemics, quarantines, restrictions, severe weather, embargos, acts of God, or public enemy, war, riot, delays in transportation or the inability to obtain necessary labor, materials or manufacturing facilities.
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8. **WARRANTIES.** Hi-Speed warrants that all goods shall conform in all material aspects to the goods identified in the quotation to Buyer and/or purchase order, and Hi-Speed makes to Buyer the manufacturer's express warranty for any goods sold to Buyer, which is offered by the manufacturer at the time of acceptance of any quotation by Buyer. This warranty is conditioned upon the installation, operation, and maintenance of the goods in accordance with the manufacturer's recommendations and/or standard industry practice and the goods at all times being operated or used under normal operating conditions for which they were designed. Hi-Speed, at its sole option, will repair or

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13. **FORCE MAJEURE.** Neither party shall be responsible for any delay or failure in performance of any party of the quotation, purchase order or these Standard Terms and Conditions to the extent that such delays or failures are caused by fire, flood, earthquake, explosion, war, embargo, government requirement, civil or military authority, acts of God, or any other circumstances beyond its reasonable control and not involving any fault or negligence on the party affected ("Condition"). If any such Condition occurs, the party delayed or unable to perform shall promptly give written notice to the other party and, if such Condition remains at the end of thirty (30) days, the party affected by the other party's delay and inability to perform may elect to (i) terminate such order or part thereof, or (ii) suspend the order for the duration of the Condition, if the Buyer is the suspending party, buy elsewhere comparable material to be sold under the order and apply to any commitment the purchase price of such purchase, and resume performance of the order once the Condition ceases, with an option in the affected party to extend the period of this order up to the length of the time the Condition endures.
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