



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

LR Motor Shop Repairs

Job Number 100494

Prepared for Kimberly Clark (10176-KCM)

500 Murphy Dr.
Maumelle AR 72113

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AC Recondition As Found - *Shop*

AC Recondition - Rev. 2: 01MAN27793 G 001 VX

1.0

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AC Recondition As Found

Kimberly Clark (10176-KCM)

500 Murphy Dr.
Maumelle, AR 72113

FolderID: 100494
FormID: 14919702

AC Recondition - Rev. 2

Location: Shop
Serial Number: 01MAN27793 G 001 VX
Description: 150HP RELIANCE 1800RPM
445TSC

Hi-Speed Job Number:	100494
Manufacturer:	Reliance
Serial Number:	01MAN27793 G 001 VX
HP/kW:	150 (HP)
RPM:	1785 (RPM)
Frame:	445TSC
Voltage:	460
Current:	170
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
J-box Included:	Half
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

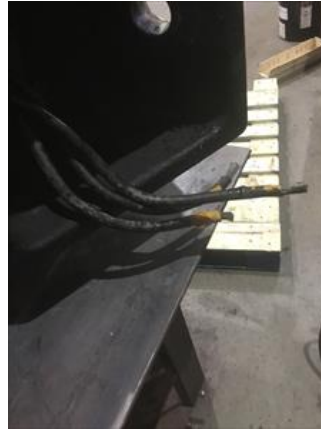
Priorities Found: ● 4 - High ● 5 - Good

Overall Condition

1. Report Date
2. Nameplate Picture



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3. Photos of all six sides of the machine.		
4. Describe the Overall Condition of the Equipment as Received		
Initial Mechanical/Electrical		
<input checked="" type="radio"/> 5. Does Shaft Turn Freely?	(Yes) Yes	
6. Does Shaft Have Visible Damage?	(No) No	

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7. Assembled Shaft Runout	0.0002 Inches
---------------------------	---------------



8. Assembled Shaft End Play	
9. Air Gap Variation <10%	
10. Lead Condition	(P) Pass



11. Lead Length	16 Inches
12. Frame Condition	



13. Fan Condition	(P) Pass
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14. Broken or Missing Components			
Initial Electrical Inspection			
15. Insulation Resistance/Megger			0 Megohms
16. Winding Resistance			
1-2	1-3	2-3	
17. Perform Surge Test			
<div><div></div><div>Rewind</div></div>			(F) Fail

18. Stator Condition

rewind

Found copper balls in bottom of motor



Blew out on end turn

Mechanical Inspection

19. Drive End Bearing Number-

6318



20. Drive End Bearing Qty.

1

21. Drive End Bearing Type

(Ball) Ball Bearing

22. Drive End Lubrication Type

(Grease) Grease Lubricated

23. Drive End Bearing Insulation or Grounding Device?

na

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24. Drive End Wavy Washer/Snap-Ring Other Retention Device?	na
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25. Drive End Bearing Condition	
<div></div> Discoloration chemical	



26. Opposite Drive End Bearing Number-	6318
--	------



27. Opposite Drive End Bearing Qty.	1
28. Opposite Drive End Bearing Type	(Ball) Ball Bearing
29. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
30. Opposite Drive End Bearing Insulation or Grounding Device?	na
31. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	na
32. Opposite Drive End Bearing Condition	
<div></div> Discoloration chemical	



- 33. Drive End Seal
- 34. Opposite Drive End Seal

Rotor Inspection

- | | |
|--------------------------|--|
| 35. Rotor Type/Material | (Squirrel Aluminum) Squirrel
Cage Aluminum Die Cast |
| 36. Growler Test | (Pass) Pass |
| 37. Number of Rotor Bars | 58 |
| 38. Rotor Condition | wash |



- 39. List the Parts needed for the Repair Below
2-6318ZZ BEARINGS 2-318 Sleeves Rewind
- 40. Signature of Technician that Disassembled Motor RW

RW

Mechanical Fits- Rotor

- | | | |
|-----------------------|------------|----------------------------|
| 41. Shaft Runout | | |
| 42. Rotor Runout | | |
| Drive End Bearing Fit | Rotor Body | Opposite Drive End Bearing |

43. Coupling Fit Closest to Bearing Housing			
0 Degrees	90 Degrees	120 Degrees	
44. Coupling Fit Closest to the end of the Shaft			
0 Degrees	60 Degrees	120 Degrees	
45. Drive End Bearing Shaft Fit			
0 Degrees	60 Degrees	120 Degrees	
3.5438	3.5437	3.5438	
46. Drive End Bearing Shaft Fit Condition	(P) Pass		




47. Opposite Drive End Bearing Shaft Fit			
0 Degrees	60 Degrees	120 Degrees	
3.5436	3.5436	3.5437	
48. Opposite Drive End Bearing Shaft Fit Condition	(P) Pass		



49. Shaft Air Seal Fits		
Drive End Air Seal	Opposite Drive End Air Seal	
Mechanical Fits- Bearing Housings		
50. Drive End - Endbell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
7.482	7.4818	7.4818



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51.	Drive End - Endbell Bearing Fit Condition	(F) Fail	
	Resleeve		
52.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	7.4812	7.4812	7.4821
53.	Opposite Drive End - Endbell Bearing Fit Condition	(F) Fail	
	Resleeve		
54.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	pass	pass	
55.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
56.	List Machine Work Needed Below		
	DE and ODE End Bell Bearing Fits Bad		
57.	Technician	RW	
			
Dynamic Balance Report			
58.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
59.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	



60. Initial Balance Readings		
Drive End	Opposite Drive End	
.06	.68	
61. Initial Balance Readings		
Drive End	Opposite Drive End	

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62. Final Balance Readings		
Drive End	Opposite Drive End	
63. Final Balance Readings		
Drive End	Opposite Drive End	
.12	.19	
64. Technician	RW	
		
65. Technician		
Rewind		
66. Core Test Results - Watts loss per Pound		
Pre-Burnout	Post Burnout	
67. Core Test Results - Watts loss per Pound		
Pre-Burnout	Post Burnout	
68. Core Hot Spot Test		
Pre-Burnout	Post-Burnout	
69. Core Hot Spot Test		
Pre-Burnout	Post-Burnout	
70. Post Rewind Electrical Test- Insulation Resistance		
71. Post Rewind Electrical Test- Insulation Resistance		
72. Post Rewind Polarization Index		
73. Post Rewind Polarization Index		
74. Post Rewind Winding Resistance		
1-2	1-3	2-3
75. Post Rewind Winding Resistance		
1-2	1-3	2-3
76. Post Rewind Surge Test		
77. Post Rewind Surge Test		
78. Post Rewind Hi-Pot		
79. Post Rewind Hi-Pot		
80. Technician		
		
81. Technician		
Root Cause of Failure		
82. Failure locations		

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83. Root cause of failure		
<i>Over Heated</i>		
Mechanical Fits- Rotor - Post Repair		
84. Shaft Runout Post Repair		
85. Shaft Runout Post Repair		
86. Rotor Runout Post Repair		
Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
87. Rotor Runout Post Repair		
Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
88. Coupling Fit Closest to Bearing Housing Post Repair		
0 Degrees	90 Degrees	120 Degrees
89. Coupling Fit Closest to Bearing Housing Post Repair		
0 Degrees	90 Degrees	120 Degrees
90. Coupling Fit Closest to the end of the Shaft Post Repair		
0 Degrees	60 Degrees	120 Degrees
91. Coupling Fit Closest to the end of the Shaft Post Repair		
0 Degrees	60 Degrees	120 Degrees
92. Drive End Bearing Shaft Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
93. Drive End Bearing Shaft Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
94. Opposite Drive End Bearing Shaft Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
95. Opposite Drive End Bearing Shaft Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
96. Shaft Air Seal Fits Post Repair		
Drive End Air Seal	Opposite Drive End Air Seal	
97. Shaft Air Seal Fits Post Repair		
Drive End Air Seal	Opposite Drive End Air Seal	
98. Shaft Repair Sign-off		
99. Shaft Repair Sign-off		
Mechanical Fits- Bearing Housings - Post Repair		
100. Drive End - Endbell Bearing Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees

101.	Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
102.	Opposite Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
103.	Opposite Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
104.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
105.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
106.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
107.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
108.	End Bell Repair Sign-off		
109.	End Bell Repair Sign-off		
Assembly			
110.	Photograph All Major Components prior to assembly		
111.	Photograph All Major Components prior to assembly		
			(Complete) Complete





112. Final Insulation Resistance Test

8,000 Megohms

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113. Final Insulation Resistance Test		
114. Assembled Shaft Endplay		
115. Assembled Shaft Endplay		
116. Assembled Shaft Runout		
117. Assembled Shaft Runout		
118. Test Run Voltage		
Volts	Volts	Volts
119. Test Run Voltage		
Volts	Volts	Volts
458	457	459



120. Test Run Amperage		
Amps	Amps	Amps
48.1	47.7	47



121. Test Run Amperage		
Amps	Amps	Amps
122. Drive End Vibration Readings - Inches Per Second		
Horizontal	Vertical	Axial
123. Drive End Vibration Readings - Inches Per Second		
Horizontal	Vertical	Axial
0.02	0.02	0.08
124. Opposite Drive End Vibration Readings - Inches Per Second		
Horizontal	Vertical	Axial
125. Opposite Drive End Vibration Readings - Inches Per Second		
Horizontal	Vertical	Axial
0.02	0.03	0.08
126. Ambient Temperature - Fahrenheit		
127. Ambient Temperature - Fahrenheit		
128. Drive End Bearing Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes
129. Drive End Bearing Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes
130. Opposite Drive End Bearing Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes
131. Opposite Drive End Bearing Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes
132. Final Test Run Sign-off		
133. Final Test Run Sign-off		
134. Document Final Condition with Pictures after paint		
135. Document Final Condition with Pictures after paint		

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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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10. **SEVERABILITY.** The partial or complete invalidity of any provision of these Standard Terms and Conditions shall not affect the enforceability of the remainder of these Standard Terms and Conditions. If any provision is found to be invalid or unenforceable, that portion shall be modified to make it enforceable or shall be stricken and the remainder of these Standard Terms and Conditions shall enforced.
11. **GOVERNING LAW AND JURISDICTION.** Any controversy arising out of any quotation, the purchase order, the goods sold or delivered, repair or replacement thereof, or any services provided pursuant to any quotation or any purchase order, or these Standard Terms and Conditions shall be governed by the laws of the state of Tennessee without regard to any choice of law provisions and any cause of action related in any manner thereto shall be brought only in the state or federal courts of Shelby County, Tennessee.
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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.
14. **NONWAIVER.** No course of dealing or failure of either party to strictly enforce any term, right, or condition of these Standard Terms and Conditions will be construed as a waiver of such term, right or condition. Any waiver by Hi-Speed will only be in writing and will waive no succeeding breach of a term, right or condition.
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16. **NO INDIVIDUAL LIABILITY.** Notwithstanding any other agreement to the contrary, the Buyer agrees that in no event will the Buyer hold and Hi-Speed owner, director, officer or employee personally liable for unintentional tortious conduct or conduct that constitutes the breach of any contract between Hi-Speed and the Buyer, even if the Hi-Speed owner, director, officer or employee is or could be construed to be a party to such contract.