



KEEPING YOUR FACILITY UP TO SPEED
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Motor Shop Repairs

Job Number 99673

Prepared for Kimberly Clark (10176-KCM)

500 Murphy Dr.
Maumelle AR 72113

Table of Contents



Hi-Speed Industrial Service
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AC Recondition As Found

Kimberly Clark (10176-KCM)

500 Murphy Dr.
Maumelle, AR 72113

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AC Recondition - Rev. 2

Location: Shop
Serial Number: 12KC503662-DAT-1
Description: 40HP Allen Bradley 1800RPM L2869

Hi-Speed Job Number:	99673
Manufacturer:	Reliance
Product Number:	04/98 XT
Serial Number:	12KC503662-DAT-1
HP/kW:	40 (HP)
RPM:	1780 (RPM)
Frame:	L2869
Voltage:	460
Current:	50
Hz:	60 (Hz)
Service Factor:	1.00
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	04/19/2022
Repair Stage:	Teardown Inspection
Bearing Housing Machined Fit Repairs Required:	DE bearing Fit On End Bell

Priorities Found: 3 - High 2 - Medium 10 - Good

Overall Condition

1. Report Date

2. Nameplate Picture

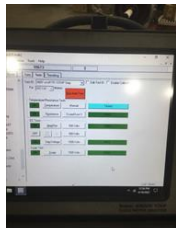




3. Describe the Overall Condition of the Equipment as Received *DE end bell bearing fit is over sized and motor needs reconditioning*



Initial Mechanical/Electrical

4.	Does Shaft Turn Freely?	(Yes) Yes
5.	Does Shaft Have Visible Damage?	(No) No
6.	Assembled Shaft Runout	0.003 Inches
7.	Assembled Shaft End Play	inches
8.	Air Gap Variation <10%	
9.	Lead Condition	(P) Pass

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10.	Lead Length	9 Inches	
11.	Stator Temperature Detector Rating and Function		
	Quantity	Rating	Quantity Passed
12.	Bearing Temperature Detector Rating and Function		
	Quantity	Rating	Quantity Passed
13.	Frame Condition	pass	
14.	Fan Condition	(N) NA	
15.	Heater Quantity, Ratings		
	Quantity	Volts/Watts	Pass/Fail
16.	Broken or Missing Components	NA	
Initial Electrical Inspection			
17.	Insulation Resistance/Megger	Megohms	
18.	Winding Resistance		
	1-2	1-3	2-3
19.	Perform Surge Test	(P) Pass	
			
20.	Stator Condition	PASS	
Mechanical Inspection			
21.	Drive End Bearing Number-	6313	
22.	Drive End Bearing Qty.	1	
23.	Drive End Bearing Type	(Ball) Ball Bearing	
24.	Drive End Lubrication Type	(Grease) Grease Lubricated	
	Grease is old and charged		
25.	Drive End Bearing Insulation or Grounding Device?		
26.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer	
27.	Drive End Bearing Condition		
	Signs of frosting		
<div></div>			
28.	Opposite Drive End Bearing Number-	6211	
29.	Opposite Drive End Bearing Qty.	1	
30.	Opposite Drive End Bearing Type	(Ball) Ball Bearing	

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31. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
Old and charred		
32. Opposite Drive End Bearing Insulation or Grounding Device?		
33. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	NA	
34. Opposite Drive End Bearing Condition		
Signs of fluting		
 		
35. Drive End Seal	NA	
36. Opposite Drive End Seal	NA	
Rotor Inspection		
37. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
38. Growler Test	(Pass) Pass	
39. Number of Rotor Bars	40	
40. Rotor Condition	pass	
41. List the Parts needed for the Repair Below		
Bearings and machine work and aegis ring		
42. Signature of Technician that Disassembled Motor		
Mechanical Fits- Rotor		
43. Shaft Runout		
44. Rotor Runout		
Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
45. Coupling Fit Closest to Bearing Housing		
0 Degrees	90 Degrees	120 Degrees
46. Coupling Fit Closest to the end of the Shaft		
0 Degrees	60 Degrees	120 Degrees
47. Drive End Bearing Shaft Fit		
0 Degrees	60 Degrees	120 Degrees
Pass		
48. Drive End Bearing Shaft Fit Condition	(P) Pass	
49. Opposite Drive End Bearing Shaft Fit		
0 Degrees	60 Degrees	120 Degrees
Pass		
50. Opposite Drive End Bearing Shaft Fit Condition	(P) Pass	
51. Shaft Air Seal Fits		
Drive End Air Seal	Opposite Drive End Air Seal	

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Mechanical Fits- Bearing Housings

52. Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

 *Over sized and pitted*

53. Drive End - Endbell Bearing Fit Condition

(F) Fail

54. Opposite Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

 *Pass*

55. Opposite Drive End - Endbell Bearing Fit Condition

(P) Pass

56. Bearing Cap Condition

Drive End Bearing Cap

Opposite Drive End Bearing Cap

 *Pass*



57. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

58. List Machine Work Needed Below

DE end bell bearing fit

59. Technician

Root Cause of Failure

60. Failure locations

61. Root cause of failure

Improperly greased and electrical discharge into the bearings



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1. **APPLICABILITY.** The sale of any and all goods and/or services by Mock, Inc. d/b/a Hi-Speed Industrial Service ("Hi-Speed") shall be specifically conditioned upon and subject to the following terms and conditions which are incorporated by reference into any contracts and purchase orders with Hi-Speed, and which shall form and become a part of any agreement related thereto. Buyer's acceptance of any offer or quotation made by Hi-Speed for sale of any goods or services is expressly made subject to the terms and conditions set forth herein and to be so effective, Buyer need not sign or approve these Terms and Conditions to be bound hereunder provided a copy of same is provided to Buyer through any means. None of the terms and conditions contained herein may be added to, expanded, changed, modified, superseded or otherwise altered except as revised in writing and duly executed by Hi-Speed, and all orders received by Hi-Speed shall be governed only by the terms and conditions contained herein, notwithstanding any terms, conditions or provisions of any purchase order, release order, authorization or any other form issued by the Buyer. Hi-Speed hereby objects to any additional, modified, changed, deleted, altered or other terms and conditions not contained herein and notifies Buyer that any such terms or provisions are expressly rejected by Hi-Speed.
2. **PRICE.** All quoted prices shall remain firm and binding for a period of thirty (30) days from the date of quotation or for the period specifically stated in the quotation. The price for any and all goods and/or services ordered or approved by Buyer after thirty (30) days from the date of any quotation are subject to any increase in price that may occur after the expiration of thirty (30) days from the issuance of the quotation and the date the Buyer releases any shipment.
3. **SCOPE OF GOODS AND/OR SERVICES.** The goods and/or services provided by Hi-Speed pursuant to any quotation shall be limited exclusively to those goods and/or services expressly identified therein. Hi-Speed does not assume any responsibility and/or liability for the failure to provide any other goods and/or services not identified in any quotation. Modifications, additions or deletions to or from the scope referenced in any quotation shall only be effective if evidenced in writing and signed by Hi-Speed. The sale of any of all goods and/or services affected by such modification, addition or deletion shall be subject to these same Standard Terms and Conditions whether or not referenced therein.
4. **BILLING AND PAYMENT TERMS.** Hi-Speed shall invoice Buyer for all goods and/or services as same are rendered at the address listed on the quotation. Payments for all goods and/or services shall be due thirty (30) days from the date of the current invoice or as otherwise set forth in the quotation. Late payments are subject to a late fee of 5% of the total invoice amount. Recurring late payments may lead to a deposit requirement on future services or sale of goods. Buyer shall be liable to Hi-Speed for any and all fees and expenses incurred by Hi-Speed to collect any invoices or to enforce these Standard Terms and Conditions, including but not limited to, attorney's fees.
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.
6. **DELIVERY SITE AND TIME FOR PERFORMANCE.** Hi-Speed and Buyer agree that time is of the essence for the purchase order and that Buyer shall fully cooperate with Hi-Speed in order to allow Hi-Speed full access to prosecute its work diligently and in an orderly manner. Buyer shall assist Hi-Speed in every way possible to avoid delaying, disrupting or interfering with the progress of Hi-Speed's work at the project site. In the event Hi-Speed's work is delayed, hindered, suspended, disrupted, re-sequenced or interfered with or rendered less efficient or more costly or adversely affected in any way as a result of acts or omissions of Buyer or other contractors or employees of Buyer or by any other reason beyond Hi-Speed's control and without the fault of Hi-Speed, then, in such event, Buyer shall be liable to Hi-Speed for any damages, additional costs, expenses, labor, materials, man hours, acceleration costs, overtime, additional jobsite overhead, extended home office overhead, and any and all other direct and indirect expenses of whatsoever nature or kind, caused in whole or in part, as a result of any of the above-referenced occurrences. Hi-Speed's project records will be the basis for computing the additional costs and damages of Hi-Speed's labor, materials, expenses and overhead related to such changes. BUYER WARRANTS THAT THE SITE FOR DELIVERY OR INSTALLATION OF ANY GOODS AND/OR FOR THE PERFORMANCE OF ANY SERVICES SHALL BE READY AND ADEQUATE FOR HI-SPEED'S DELIVERY OF GOODS AND/OR PERFORMANCE OF SERVICES AND THAT HI-SPEED SHALL HAVE FULL ACCESS THERETO, FREE OF ALL OBSTRUCTIONS. BUYER SHALL ASSUME ALL EXTRA COSTS ASSOCIATED WITH HI-SPEED'S INABILITY TO INSTALL ANY GOODS OR PERFORM ANY SERVICES AS A RESULT OF BUYER'S FAILURE TO COMPLY WITH THIS PROVISION. HI-SPEED MAY NOT INSPECT THE SITE PRIOR TO DELIVERY AND/OR INSTALLATION OF GOODS AND/OR PERFORMANCE OF SERVICES AND MAKES NO WARRANTY AS TO THE SUFFICIENCY OF THE SITE FOR THE DELIVERY AND/OR INSTALLATION OF GOODS AND/OR THE PERFORMANCE OF SERVICES AT SUCH SITE.
7. **INSPECTION/ACCEPTANCE.** All goods and services ordered pursuant to any quotation shall be subject to inspection by Buyer after delivery or performance to determine conformity with the quotation and/or purchase order and Hi-Speed's advertised or published specifications. Buyer shall have a period of thirty (30) days from shipment of goods at the delivery destination specified in the quotation within which to inspect the goods for conformity with the quotation, order and/or Hi-Speed's advertised and published specifications and to provide Hi-Speed with written notice of any discrepancy or rejection. Buyer shall have a period of thirty (30) days following completion of any services within which to inspect the services for conformity with the quotation, purchase order and/or Hi-Speed's advertised and published specifications and to provide Hi-Speed with written notice of any discrepancy or rejection. If the goods delivered or services performed do not so conform, upon delivery of notice to Hi-Speed of any discrepancy, nonconformance or rejection, Hi-Speed shall have sixty (60) days to cure the alleged discrepancy and/or nonconformance. If Hi-Speed fails to cure in this time period, Buyer shall have the right to reject such goods or services. After the cure period, goods that have been delivered and rejected, in whole or in part, shall be returned to Hi-Speed. Buyer shall notify Hi-Speed and arrange for the return of the goods as required. Should such non-conforming services be rejected Hi-Speed shall, at its sole cost, re-perform the non-conforming services. Inspection or failure to inspect on any occasion shall not affect Buyer's rights under the warranty provisions herein.
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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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.
12. **ABANDONED EQUIPMENT.** Hi-Speed requires that Buyer promptly pick up or provide shipment instructions for Buyer equipment or other Buyer property in Hi-Speed's possession. If equipment or other Buyer property is left with Hi-Speed and not picked up within six (6) months after Hi-Speed's final action related to the applicable property (e.g. evaluation, teardown, estimate, completion of services), Hi-Speed will consider such property abandoned and may dispose of it in accordance with applicable law. Buyer agrees to hold Hi-Speed harmless for any damage or claim for such abandoned property and acknowledges that Hi-Speed may discard or recycle it at Hi-Speed's sole and absolute discretion. Specifically, Hi-Speed may sell Buyer's abandoned property at a private or public sale and retain the proceeds to offset Hi-Speed's storage, inspection and servicing costs. For the avoidance of doubt, Hi-Speed reserves its statutory and other lawful liens for unpaid charges related to abandoned property.
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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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.