



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

LR Motor Shop Repairs

Job Number 103901

Prepared for Reynolds Metals company

1333 highway 270
Malvern AR 72104

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AC Inspection as Found - *LITTLE ROCK MOTOR
SHOP*

AC Inspection - Rev. 2: *ID#P28G352E-G8-NE*

1.0

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AC Inspection as Found

Reynolds Metals company

1333 highway 270
Malvern, AR 72104

FolderID: 103901
FormID: 22659753

AC Inspection - Rev. 2

Location: LITTLE ROCK MOTOR SHOP

Serial Number: ID#P28G352E-G8-NE

Description: 25 HP

Hi-Speed Job Number:	103901
Manufacturer:	Reliance
Spec/ID #:	ID P28G352E-GB-NE
HP/kW:	25 (HP)
RPM:	1765 (RPM)
Frame:	284T
Voltage:	460
Current:	32 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	3
J-box Included:	None
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: ● 3 - High ● 8 - Good

Overall Condition

1. Report Date
2. Nameplate Picture



3. Photos of all six sides of the machine.

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4. Describe the Overall Condition of the Equipment as Received

Serviceable

Initial Mechanical/Electrical

●	5. Does Shaft Turn Freely?	(Y) Yes
●	6. Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
	7. Does Shaft Have Visible Damage?	(No) No
●	8. Assembled Shaft Runout	0 Inches
	9. Assembled Shaft End Play	0 inches
	10. Air Gap Variation <10%	0

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1.2



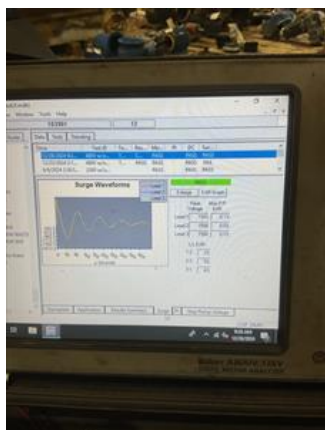
12. Lead Length	10 Inches
13. Does it have Lugs?, If so what is the Stud Size?	(Yes) Yes
14. Lead Numbers	1-3
15. Frame Condition	pass
16. Fan Condition	(F) Fail



17. Broken or Missing Components			fan broken and missing fan cover
Initial Electrical Inspection			
18. Insulation Resistance/Megger			7392 Megohms
19. Winding Resistance			
1-2	1-3	2-3	
0	901.0	0	

20. Perform Surge Test

(P) Pass



21. Number of Stator Slots

48

22. Stator Condition

wash and dry



23. Stator Thermistors/Ohms

Na

24. Stator Overloads/Ohms

Na

Mechanical Inspection

25. Drive End Bearing Brand

NTN

26. Drive End Bearing Number-

6310 C3

27. Drive End Bearing Qty.

1

28. Drive End Bearing Type

(Ball) Ball Bearing

29. Drive End Lubrication Type

(Grease) Grease Lubricated

30. Drive End Bearing Insulation or Grounding Device?

NA

31. Drive End Wavy Washer/Snap-Ring Other Retention Device?

NA

32. Drive End Bearing Condition

normal wear



- | | |
|--|----------------------------|
| 33. Opposite Drive End Bearing Brand | NTN |
| 34. Opposite Drive End Bearing Number- | 6310 C3 |
| 35. Opposite Drive End Bearing Qty. | 1 |
| 36. Opposite Drive End Bearing Type | (Ball) Ball Bearing |
| 37. Opposite Drive End Lubrication Type | (Grease) Grease Lubricated |
| 38. Opposite Drive End Bearing Insulation or Grounding Device? | NA |
| 39. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device? | WAVY WASHER |
| 40. Opposite Drive End Bearing Condition | |

Normal wear



- | | |
|-----------------------------|----|
| 41. Drive End Seal | Na |
| 42. Opposite Drive End Seal | Na |

Rotor Inspection

- | | |
|--------------------------|--|
| 43. Rotor Type/Material | (Squirrel Aluminum) Squirrel
Cage Aluminum Die Cast |
| 44. Growler Test | (Pass) Pass |
| 45. Number of Rotor Bars | 40 |

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47. List the Parts needed for the Repair Below

2- 6310 C3 Bearings

48. Signature of Technician that Disassembled Motor

RW

Mechanical Fits- Rotor

49. Shaft Runout

0 inches

50. Rotor Runout

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

0

0

0

51. Coupling Fit Closest to Bearing Housing

0 Degrees

90 Degrees

120 Degrees

Na

52. Coupling Fit Closest to the end of the Shaft

0 Degrees

60 Degrees

120 Degrees

Na

53. Drive End Bearing Shaft Fit

0 Degrees

60 Degrees

120 Degrees

1.9689

1.9689

1.9689

54. Drive End Bearing Shaft Fit Condition

(P) Pass



55. Opposite Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
1.9688	1.9688	1.9688

56. Opposite Drive End Bearing Shaft Fit Condition

(P) Pass



57. Shaft Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal
pass	

Mechanical Fits- Bearing Housings

58. Drive End - Endbell Bearing Fit

0 Degrees	60 Degrees	120 Degrees
4.3316	4.3316	4.3316

59. Drive End - Endbell Bearing Fit Condition

(P) Pass



60. Opposite Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

4.3319

4.3319

4.3319

61. Opposite Drive End - Endbell Bearing Fit Condition

(F) Fail

Resleeve



62. Bearing Cap Condition

Drive End Bearing Cap

Opposite Drive End Bearing Cap

pass

63. End Bell Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

pass

64. List Machine Work Needed Below

ODE END BELL BEARING FIT

65. Technician

RW

A large, stylized handwritten signature in black ink, likely belonging to the technician RW.

Co sign TRH

Root Cause of Failure

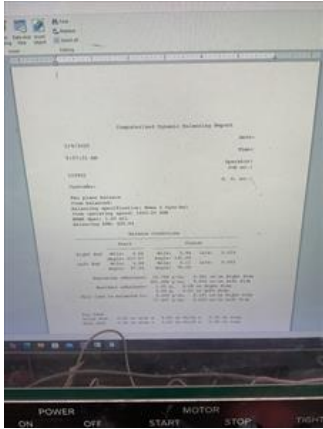
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1.8

66.	Failure locations <i>Missing fan cover. Fan blades broken stator</i>
67.	Root cause of failure <i>Water in stator and bearings fan broken because of missing fan cover</i>
Dynamic Balance Report	
68.	Rotor Weight and Balance Grade
	Rotor Weight Balance Grade




69.	Initial Balance Readings		
	Drive End	Opposite Drive End	
	1.56	1.84	
70.	Final Balance Readings		
	Drive End	Opposite Drive End	
	0.44	0.11	
71.	Technician		RW
			
Rewind			
72.	Core Test Results - Watts loss per Pound		
	Pre-Burnout	Post Burnout	
	 <i>Na</i>		
73.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
	 <i>Na</i>		
74.	Post Rewind Electrical Test- Insulation Resistance		Megohms
	 <i>Na</i>		
75.	Post Rewind Polarization Index		Polarization Index
	 <i>Na</i>		

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76. Post Rewind Winding Resistance		
1-2	1-3	2-3
Na		
77. Post Rewind Surge Test		
Na		
78. Post Rewind Hi-Pot		micro-amps
Na		
79. Technician		
Na		
Mechanical Fits- Rotor - Post Repair		
80. Shaft Runout Post Repair		inches
Na		
81. Rotor Runout Post Repair		
Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
Na		
82. Coupling Fit Closest to Bearing Housing Post Repair		
0 Degrees	90 Degrees	120 Degrees
Na		
83. Coupling Fit Closest to the end of the Shaft Post Repair		
0 Degrees	60 Degrees	120 Degrees
Na		
84. Drive End Bearing Shaft Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
Na		
85. Opposite Drive End Bearing Shaft Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
Na		
86. Shaft Air Seal Fits Post Repair		
Drive End Air Seal	Opposite Drive End Air Seal	
Na		
87. Shaft Repair Sign-off		
Na		
Mechanical Fits- Bearing Housings - Post Repair		
88. Drive End - Endbell Bearing Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
Na		
89. Opposite Drive End - Endbell Bearing Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
Na		

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90. Bearing Cap Condition Post Repair		
Drive End Bearing Cap		Opposite Drive End Bearing Cap
Na		
91. End Bell Air Seal Fits Post Repair		
Drive End Air Seal		Opposite Drive End Air Seal
Na		
92. End Bell Repair Sign-off		
Na		
Assembly		
93. QC Check All Parts for Cleanliness Prior to Assembly		RW
		
94. Photograph All Major Components prior to assembly		(Complete) Complete





95. Final Insulation Resistance Test	Megohms	
<div> <div></div> <div>Passed the HI POT</div> </div>		
96. Assembled Shaft Endplay	0 inches	
97. Assembled Shaft Runout		
98. Test Run Voltage		
Volts	Volts	Volts
459	457	458



Co sign DM

99. Test Run Amperage

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Amps	Amps	Amps
12.8	12.7	12.6



100. Drive End Vibration Readings - Inches Per Second		
Horizontal	Vertical	Axial
0.03	0.02	0.02
101. Opposite Drive End Vibration Readings - Inches Per Second		
Horizontal	Vertical	Axial
0.06	0.03	0.04
102. Ambient Temperature - Fahrenheit		
Na		
103. Drive End Bearing Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes
Na		
104. Opposite Drive End Bearing Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes
Na		
105. Document Final Condition with Pictures after paint		



106. Final Pics and QC Review

RW

Co sign TRH



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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.
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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.
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.
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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

replace any defective or non-conforming goods in accordance with the applicable manufacturer's warranty. Warranty for any defective or incorrect parts is limited to the repair or replacement of those parts. Hi-Speed warrants that all services will conform in all material respects to the description of services identified in the quotation and will be performed in a good and workmanlike manner in accordance with industry practices and standards. Should the services be reasonably rejected or not conform with the foregoing warranties, Hi-Speed shall, at its sole cost, re-perform the defective or nonconforming services. Notwithstanding the foregoing, these warranties do not extend to goods or services to the extent that such goods have been subject to misuse, neglect or abuse not caused by Hi-Speed or have been used in violation of the approved written instructions furnished to Buyer. THE FOREGOING REPRESENTS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY HI-SPEED WITH RESPECT TO ALL GOODS SOLD AND IS IN LIEU OF ALL OTHER WARRANTIES EITHER EXPRESS OR IMPLIED. HI-SPEED EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE OR PURPOSE. BUYER WAIVES ANY CLAIM THAT THESE EXCLUSIONS OR LIMITATIONS DEPRIVE IT OF AN ADEQUATE REMEDY AT EQUITY OR LAW OR CAUSE THIS AGREEMENT TO FAIL IN ITS ESSENTIAL PURPOSE. BUYER SHALL BE ENTITLED TO NO OTHER REMEDY OTHER THAN AS SET FORTH HEREIN, REGARDLESS OF THE CLAIM OR CAUSE OF ACTION, WHETHER BASED IN CONTRACT, TORT, NEGLIGENCE, GOODS LIABILITY, STRICT LIABILITY OR OTHERWISE.

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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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