

Motor Shop Repairs

Job Number 97446

Prepared for Reynolds Metals company

1333 highway 270 Malvern AR 72104

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AC Recondition Repair Report

Reynolds Metals company

1333 highway 270 Malvern, AR 72104 FolderID: 97446 FormID: 9129852

Gener	ral		
1.	Job Number	97446	
2.	Report Date		
3.	Customer	Reynolds	
Name	Plate Information		0
4.	Manufacturer		Р
5.	Model		
6.	Serial Number		
7.	Horsepower		
8.	KW		
9.	Volts		
10.	Amps		
11.	RPM		
12.	Frame		
13.	Enclosure	TEFC	P7
14.	Cycles	60 HZ	
15.	Phase	3 PH	
16.	Service Factor		
17.	Motor Mount Position		
nitial	Inspection		0
18.	Number of Leads	3	
19.	Lead Length	10 Inches	
20.	Lead Size		P3
21.	Lead Condition	(P) Pass	
22.	Lead Markings	1,2,3	
23.	Lug Size, Condition, and Type		
	N/a		
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	P9
29.	Bearing Rtd's	(NA) Not Applicable	
30.	Bearing Rtd's Condition	(NA) Not Applicable	
31.	Contamination None		

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32.	Frame Condition (P) Pas	S
33.	Fan Condition (P) Pas	s P109
34.	Broken or missing components	
Initial	Electric Test	0
35.	Resistance to Ground Mohr	n
36.	Winding Resistance 1-2	
37.	Winding Resistance 2-3	
38.	Winding Resistance 1-3	
39.	Resistive Imbalance	
40.	Hi-Pot U	а
41.	Surge Test (F) Fa	il
42.	Stator Condition good	
43.	Failure Location	P66
Initial	Rotor Inspection	0
44.	Rotor Type squirrel cage	P
45.	Air Gap <10% Variation	
46.	Number of Rotor Bars 28	3
47.	Number of Broken Rotor Bars)
48.	Growler Test (P) Pas	s
49.	Rotor Condition (P) Pas	s
Mech	anical Inspection	O
50.	Bearing Manufacture koyo	•
51.	Bearing DE Size 6208	P 14
52.	Bearing DE Type sealed ball bearing	P2:
53.	DE Bearing Qty.	l
54.	Bearing ODE Size 6208	P 4:
55.	Bearing ODE Type sealed ball bearing	
56.	ODE Bearing Qty.	
57.	Insulated Bearing no	
58.	Lubrication Type	
59.	Grease Condition (NA) Not Applicable	е
60.	Bearing Retainers (NA) Not Applicable	е
61.	Shaft Grounding Device (NA) Not Applicable	е
62.	DE Seal (NA) Not Applicable	е
63.	DE Seal Type/Size	
64.	ODE Seal (NA) Not Applicable	е
65.	ODE Seal Type/Size	
Root	Cause of Failure	O
66.	Component Failure windings	
67.	Cause of Failure	P1:
	Overload	
68.	Comments	

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69. Service Technician Terrence Holland

Tem Holland

Machine Fit Inspection Report	88
/// Shaff Dun Auf	
70. Shaft Run Out71. Initial Shaft Run Out0.00	
72. Final Shaft Run Out	1
73. DE Bearing Shaft Fit (P) Pa	
74. DE Initial Shaft Bearing Fit Size 1	
75. DE Initial Shaft Bearing Fit Size 2 0.078	
76. DE Initial Shaft Bearing Fit Size 3 0.078	8 "
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) Pa	
81. ODE Initial Shaft Bearing Fit Size 1 0.0787	
82. ODE Initial Shaft Bearing Fit Size 2 0.078	
83. ODE Initial Shaft Bearing Fit Size 3 0.0787	9 "
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	
93. DE Endbell Fit (P) Pa	ss
94. DE Initial Endbell Fit Size 1	1 "
95. DE Initial Endbell Fit Size 2	6 "
96. DE Initial Endbell Fit Size 3	8 "
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 (NA) Not Applical	ole
101. DE Endbell Air Seal Fit (NA) Not Applicat	ole
102. Initial Endbell Air Seal Fit Size	"
103. Finial Endbell Air Seal Fit Size	
104. ODE Endbell Fit	
105. ODE Endbell Fit Insulated	
106. ODE Endbell Air Seal Fit	
107. ODE Initial Endbell Seal Fit Size	
108. ODE Finial Endbell Seal Fit Size	
109. Foot Flatness (NA) Not Applical	ole
110. Foot Condition (NA) Not Applical	ole

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111. Flange Condition

(P) Pass

112. Service Technician

Terrence Holland

Balancing Report

113. Balance Type

114. Balance Operating Speed

115. Start Left End

116. Start Right End

117. Balancing Specification

118. Finish Left End

119. Finish Right End

120. Service Technician

Assembly and Final Test

121. Meggar Testing Reading

122. Surge Test 123. Hi-Pot 124. Winding Resistance 1-2 125. Winding Resistance 2-3 126. Winding Resistance 1-3 127. Test Run Voltage Phase A 128. Test Run Amps A 129. Test Run Voltage Phase B 130. Test Run Amps B 131. Test Run Voltage Phase C 132. Test Run Amps C 133. DE Horizontal Vibration Reading 134. DE Vertical Vibration Reading 135. DE Axial Vibration Reading 136. ODE Horizontal Vibration Reading 137. ODE Vertical Vibration Reading 138. ODE Axial Vibration Reading 139. Ambient Temp at start of Test Run 140. Temp at 5 minutes 141. Temp at 10 minutes 142. Temp at 15 minutes 143. Temp at 20 minutes 144. Temp at 25 minutes 145. Temp at 30 minutes 146. Temp at 35 minutes 147. Temp at 40 minutes 148. Temp at 45 minutes 149. Temp at 50 minutes 150. Temp at 55 minutes

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151. Temp at 60 minutes



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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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- 4. <u>BILLING AND PAYMENT TERMS.</u> 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. <u>DELIVERY OF GOODS AND/OR SERVICES.</u> 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.
- **DELIVERY SITE AND TIME FOR PERFORMANCE.** Hi-Speed and Buver 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 PARTICLAR 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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- 10. <u>SEVERABILITY.</u> 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.
- 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, earth quake, 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. <u>NONWAIVER.</u> 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.
- 15. **ASSIGNMENT.** The rights and obligations of the parties shall neither be assigned nor delegated without the prior written consent of the other party. However, any party may assign or delegate its respective rights and obligations, in whole or in part, (i) to any subsidiary, (ii) pursuant to other financing, merger or reorganization or (iii) pursuant to any sale or transfer of substantially all of the assets of the assigning party. These Standard Terms and Conditions shall bind the heirs, successors and assigns of the parties hereto.
- 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.