

# **Motor Shop Repairs**

## **Job Number 97575**

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

Priorities Found: 1 - High 9 - Good

Prioritie	s Found: 🔴 1 - High 💮 9 - Good		
Gene	ral		
1.	Job Number	97575	
2.	Report Date		
3.	Customer	REYNOLDS	
Name Plate Information			О
4.	Manufacturer	RELIANCE	P5
5.	Model		
6.	Serial Number	L000KE	
7.	Horsepower	7.5	
8.	KW		
9.	Volts	460	
10.	Amps	11	
11.	RPM	875	
12.	Frame	256TY	
13.	Enclosure	TENV	
14.	Cycles	60	
15.	Phase	3	
16.	Service Factor		
17.	Motor Mount Position		
Initial	Inspection		
18.	Number of Leads	3	
19.	Lead Length	5 Inches	
20.	Lead Size	10	
<b>2</b> 1.	Lead Condition	(P) Pass	
22.	Lead Markings	metal tags	
23.	Lug Size, Condition, and Type		
24.	Winding RTD's	(NA) Not Applicable	
25.	Winding Rtd's Condition		
26.	Shaft Run Out		
27.	Does Shaft Turn Freely	no	
28.	Does Shaft Have Visible Damage	no	
29.	Bearing Rtd's		
30.	Bearing Rtd's Condition		
31.	Contamination		
<b>3</b> 2.	Frame Condition	(P) Pass	
33.	Fan Condition	(NA) Not Applicable	

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0.4	B. I		
	Broken or missing components		
	Electric Test		
35.			
36.	Winding Resistance 1-2		
37.	Winding Resistance 2-3		
38.	Winding Resistance 1-3		
39.	Resistive Imbalance		
40.	Hi-Pot		
41.	•		
	Stator Condition	Overheated and iron damaged slightly	
	Failure Location		
	Rotor Inspection		
	Rotor Type	cast aluminum	
45.	Air Gap <10% Variation		
46.	Number of Rotor Bars	6	
47.	Number of Broken Rotor Bars		
<b>48</b> .	Growler Test	(P) Pass	
• 49.	Rotor Condition	(P) Pass	
Mecha	anical Inspection		0
50.	Bearing Manufacture	Koyo	P
51.	Bearing DE Size	6316	
52.	Bearing DE Type	deep groove ball	
53.	DE Bearing Qty.	1	
54.	Bearing ODE Size	6316	
55.	Bearing ODE Type	deep groove all	
56.	ODE Bearing Qty.	1	
57.	Insulated Bearing		
58.	Lubrication Type	polyrex mixed with red	
59.	Grease Condition	(F) Fail	
60.	Bearing Retainers		
61.	Shaft Grounding Device		
62.	DE Seal		
63.	DE Seal Type/Size		
64.	ODE Seal		
65.	ODE Seal Type/Size		
Root	Cause of Failure		
66.	Component Failure	DE Bearing seized up	
67.	Cause of Failure		
	Improper lube type added		
68.	Comments		
	Rewind recommended		
69.	Service Technician	David Maclin	
	Dun		

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M	Machine Fit Inspection Report			
	70.	Shaft Run Out	(P) Pass	
	71.	Initial Shaft Run Out	0.002 "	
	72.	Final Shaft Run Out	II .	
	73.	DE Bearing Shaft Fit	(P) Pass	
	74.	DE Initial Shaft Bearing Fit Size 1	3.149 "	
	75.	DE Initial Shaft Bearing Fit Size 2	3.1492 "	
	76.	DE Initial Shaft Bearing Fit Size 3	3.1492 "	
	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	3.1497 "	
	82.	ODE Initial Shaft Bearing Fit Size 2	3.1496 "	
	83.	ODE Initial Shaft Bearing Fit Size 3	3.1497 "	
	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) Pass	
	94.	DE Initial Endbell Fit Size 1	6.6935 "	
	95.	DE Initial Endbell Fit Size 2	6.6935 "	
	96.	DE Initial Endbell Fit Size 3	6.6935 "	
	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	6.6932 "	
	106.	ODE Initial Endbell Fit Size 2	6.6929 "	
	107.	ODE Initial Endbell Fit Size 3	6.6932 "	
		ODE Final Endbell Fit Size 1		
	109.	ODE Final Endbell Fit Size 2		
		ODE Final Endbell Fit Size 3		
		ODE Endbell Fit Insulated		
		ODE Endbell Air Seal Fit		
		ODE Initial Endbell Seal Fit Size		
		ODE Finial Endbell Seal Fit Size		
	115.	Foot Flatness		

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116. Foot Condition
117. Flange Condition
118. Service Technician

David Maclin

I M

Balan	cing 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				
127.	Meggar Testing Reading			
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			
134.	Test Run Amps A			
135.	Test Run Voltage Phase B			
136.	Test Run Amps B			
137.	Test Run Voltage Phase C			
	Test Run Amps C			
	DE Horizontal Vibration Reading			
140.	DE Vertical Vibration Reading			
	DE Axial Vibration Reading			
	ODE Horizontal Vibration Reading			
	ODE Vertical Vibration Reading			
	ODE Axial Vibration Reading			
	Ambient Temp at start of Test Run			
	Temp at 5 minutes			
	Temp at 10 minutes			
	Temp at 15 minutes			
	Temp at 20 minutes			
	Temp at 25 minutes			
	Temp at 30 minutes			
	Temp at 35 minutes			
	Temp at 40 minutes			
	Temp at 45 minutes			
	Temp at 50 minutes			
156.	Temp at 55 minutes			

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- 157. Temp at 60 minutes
- 158. Motor Paint
- 159. Service Technician



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- 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.
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- 8. <u>WARRANTIES.</u> 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, 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.
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