

# Motor Shop Repairs

# Job Number 99484

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: 5 - High

12 - Good

Thoracon dund. 3- Fight			
General			
1. Job Nur	nber	99484	
2. Report I	Date	3/9/2022	
3. Custom	er	Reynolds Consumer Products	
Name Plate Information			

Manufacturer **Siemens** 



















































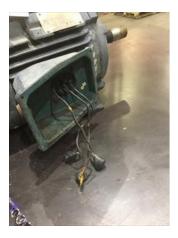








5.	Model	1LA02842SE41	
6.	Serial Number	J05TESP.43 6	
7.	Horsepower	25	
8.	KW		
9.	Volts	460	
10.	Amps	29	
11.	RPM	3525	
12.	Frame	284T	
13.	Enclosure	TEFC	
14.	Cycles	60	
15.	Phase	3	
16.	Service Factor	1.15	
17.	Motor Mount Position		
Initial	Inspection		
18.	Number of Leads	3	



19.	. Lead Length 16 I	Inches
20.	. Lead Size	
21.	. Lead Condition (P	) Pass
22.	. Lead Markings	
23.	. Lug Size, Condition, and Type	
24.	. Winding RTD's	
25.	. Winding Rtd's Condition	

26.	Shaft Run Out	
27.	Does Shaft Turn Freely	yes
28.	Does Shaft Have Visible Damage	no
29.	Bearing Rtd's	
30.	Bearing Rtd's Condition	
31.	Contamination	
32.	Frame Condition	(P) Pass
33.	Fan Condition	(F) Fail
-	Fan is cracked and was found cracked before removal	





34. Broken or missing components
 Fan is cracked, missing 2 J-box bolts, and has 2 broke fan cover bolts

### **Initial Electric Test**

- 35. Resistance to Ground
- 36. Winding Resistance 1-2
- 37. Winding Resistance 2-3
- 38. Winding Resistance 1-3
- 39. Resistive Imbalance
- 40. Hi-Pot
- 41. Surge Test(P) Pass



42. Stator Condition
pass

43. Failure Location

## **Initial Rotor Inspection**

44.	Rotor Type	cast aluminum
45.	Air Gap <10% Variation	
46.	Number of Rotor Bars	
47.	Number of Broken Rotor Bars	0
48.	Growler Test	(P) Pass
49.	Rotor Condition	(P) Pass
Mech	anical Inspection	
50.	Bearing Manufacture	
51.	Bearing DE Size	6310
52.	Bearing DE Type	ball bearing
53.	DE Bearing Qty.	1
54.	Bearing ODE Size	6310
55.	Bearing ODE Type	ball bearing
56.	ODE Bearing Qty.	1
57.	Insulated Bearing	
58.	Lubrication Type	grease
59.	Grease Condition	(F) Fail
-	Mixed grease	



● 60. Bearing Retainers (Y) Yes



61. Shaft Grounding Device

62. DE Seal (NA) Not Applicable

63.	DE Seal Type/Size	
64.	ODE Seal	(NA) Not Applicable
65.	ODE Seal Type/Size	
Root	Cause of Failure	
66.	Component Failure	bearings, DE and ODE bearing fit in the end bell
67.	Cause of Failure	
	Wear and grease mixing	
68.	Comments	
	Recommend reconditioning, new bearings, and machine work	on both end bell bearing fits
	Service Technician	
	ine Fit Inspection Report	
	Shaft Run Out	
	Initial Shaft Run Out	
72.	Final Shaft Run Out	
73.		(P) Pass
74.	3	1.9688 "
	DE Initial Shaft Bearing Fit Size 2	1.9689 "
	DE Initial Shaft Bearing Fit Size 3	1.9689 "
77.	3	
	DE Finial Shaft Bearing Fit Size 2	
79.	DE Finial Shaft Bearing Fit Size 3	
80.	- 3 - 4 - 4	(P) Pass
81.	<u> </u>	1.9687 "
82.	3	1.9687 "
	ODE Initial Shaft Bearing Fit Size 3	1.9688 "
	ODE Finial Shaft Bearing Fit Size 1	
85.	ODE Finial Shaft Bearing Fit Size 2	
86.		
87.	DE Air Seal Shaft Fit	
88.		
	DE Final Air Seal Shaft Size	
90.	ODE Air Seal Shaft Fit	
91.		
92.		
93.	DE Endbell Fit  Max-4.3316  Min-4.3307	(F) Fail
94.		4.3346 "
95.		4.3347 "
96.		4.3346 "
97.		4.3340
98.	DE Finial Endbell Fit Size 2	
99.		
	DE Endbell Fit Insulated	
	DE Endbell Air Seal Fit	
	Initial Endbell Air Seal Fit Size	
_	Finial Endbell Air Seal Fit Size	

104.	ODE Endbell Fit	(F) Fail
-	Max-4.3316 Min-4.3307	
105.	ODE Initial Endbell Fit Size 1	4.335 "
106.	ODE Initial Endbell Fit Size 2	4.3346 "
107.	ODE Initial Endbell Fit Size 3	4.3358 "
108.	ODE Final Endbell Fit Size 1	
109.	ODE Final Endbell Fit Size 2	
110.	ODE Final Endbell Fit Size 3	
111.	ODE Endbell Fit Insulated	
112.	ODE Endbell Air Seal Fit	
113.	ODE Initial Endbell Seal Fit Size	
114.	ODE Finial Endbell Seal Fit Size	
115.	Foot Flatness	(P) Pass
116.	Foot Condition	(P) Pass
117.	Flange Condition	(NA) Not Applicable
118.	Service Technician	
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	
Asser	nbly and Final Test	
127.	Meggar Testing Reading	
128.	Surge Test	
129.	Hi-Pot	
	Winding Resistance 1-2	
	Winding Resistance 2-3	
	Winding Resistance 1-3	
	Test Run Voltage Phase A	
	Test Run Amps A	
	Test Run Voltage Phase B	
	Test Run Amps B	
	Test Run Voltage Phase C	
	Test Run Amps C	
	DE Horizontal Vibration Reading	
	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	
146.	Temp at 5 minutes	

147. Temp at 10 minutes	
148. Temp at 15 minutes	
149. Temp at 20 minutes	
150. Temp at 25 minutes	
151. Temp at 30 minutes	
152. Temp at 35 minutes	
153. Temp at 40 minutes	
154. Temp at 45 minutes	
155. Temp at 50 minutes	
156. Temp at 55 minutes	
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. 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. <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.
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- 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.
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