Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

AC Recondition Repair Report

FolderID: 97952
FormID: 10183494

CoorsTek Inc.
3315 Boone Road
Benton, AR 72015

Priorities Found: **17 - Good**

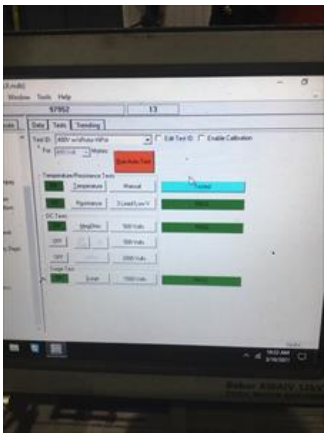
General

1.	Job Number	**97952**
2.	Report Date	**03/09/2021**
3.	Customer	**COORSTEK**

Name Plate Information

4.	Manufacturer	**ABB**	P5

Gear part number facing out



5.	Model	**M3AA 250 SMB2**
6.	Serial Number	**3G1S15041534274001**
7.	Horsepower	
8.	KW	**75**
9.	Volts	
10.	Amps	**111**
11.	RPM	**3581**
12.	Frame	**250**
13.	Enclosure	**TEFC**
14.	Cycles	**60**
15.	Phase	**3**
16.	Service Factor	**1.15**
17.	Motor Mount Position	

Initial Inspection

18.	Number of Leads	**6**
19.	Lead Length	**12 Inches**
20.	Lead Size	**6**
21.	Lead Condition	**(P) Pass**
22.	Lead Markings	**labels**
23.	Lug Size, Condition, and Type ***10mm***	
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	**(P) Pass**
	34.	Broken or missing components	
		None	
Initial Electric Test			
	35.	Resistance to Ground	**Mohm**
	36.	Winding Resistance 1-2	
	37.	Winding Resistance 2-3	
	38.	Winding Resistance 1-3	
	39.	Resistive Imbalance	
	40.	Hi-Pot	**Ua**
●	41.	Surge Test	**(P) Pass**
	42.	Stator Condition	**good**
	43.	Failure Location	
Initial Rotor Inspection			
	44.	Rotor Type	**cast aluminum**
	45.	Air Gap <10% Variation	
	46.	Number of Rotor Bars	**48**
	47.	Number of Broken Rotor Bars	
●	48.	Growler Test	**(P) Pass**
●	49.	Rotor Condition	**(P) Pass**
Mechanical Inspection			
	50.	Bearing Manufacture	**SKF**
	51.	Bearing DE Size	**NU213 ECP**
	52.	Bearing DE Type	**roller**
	53.	DE Bearing Qty.	**1**
	54.	Bearing ODE Size	**6215 2Z**
	55.	Bearing ODE Type	**ball**
	56.	ODE Bearing Qty.	**1**
	57.	Insulated Bearing	
	58.	Lubrication Type	
●	59.	Grease Condition	**(P) Pass**
●	60.	Bearing Retainers	**(Y) Yes**
	61.	Shaft Grounding Device	
●	62.	DE Seal	**(Y) Yes**
	63.	DE Seal Type/Size	
	64.	ODE Seal	
	65.	ODE Seal Type/Size	
Root Cause of Failure			
	66.	Component Failure	**ODE bearing**
	67.	Cause of Failure	
		Contamination	

	68.	Comments	
		Seal and bearing kit from AIM weld and machine ODE shaft bearing fit	
	69.	Service Technician	**David Maclin**

Machine Fit Inspection Report

	70.	Shaft Run Out	
	71.	Initial Shaft Run Out	
	72.	Final Shaft Run Out	
●	73.	DE Bearing Shaft Fit	**(P) Pass**
	74.	DE Initial Shaft Bearing Fit Size 1	
	75.	DE Initial Shaft Bearing Fit Size 2	
	76.	DE Initial Shaft Bearing Fit Size 3	
	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	**2.9529 "**
	82.	ODE Initial Shaft Bearing Fit Size 2	**2.953 "**
	83.	ODE Initial Shaft Bearing Fit Size 3	**2.953 "**
	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	**4.7244 "**
	95.	DE Initial Endbell Fit Size 2	**4.7244 "**
	96.	DE Initial Endbell Fit Size 3	**4.7244 "**
	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	**5.118 "**
	106.	ODE Initial Endbell Fit Size 2	**5.1178 "**
	107.	ODE Initial Endbell Fit Size 3	**5.1178 "**
	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	**(NA) Not Applicable**	
●	116. Foot Condition	**(NA) Not Applicable**	
●	117. Flange Condition	**(P) Pass**	
	118. Service Technician		

Balancing Report

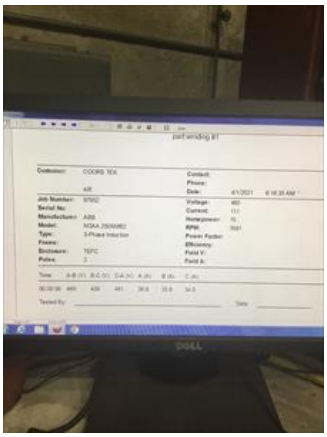
	119. Balance Type	**nema standard**	P6

	120. Balance Operating Speed	**3600 RPM**	
	121. Start Left End		
	122. Start Right End		
	123. Balancing Specification		
	124. Finish Left End		
	125. Finish Right End		
	126. Service Technician	**Terrence Holland**	

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		
	138. Test Run Amps C		
	139. DE Horizontal Vibration Reading		
	140. DE Vertical Vibration Reading		
	141. DE Axial Vibration Reading		
	142. ODE Horizontal Vibration Reading		
	143. ODE Vertical Vibration Reading		
	144. ODE Axial Vibration Reading		
	145. 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	**(P) Pass**	P136



159. Service Technician