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

AC Recondition Repair Report

FolderID: 97719
FormID: 9743197

Welspun Tubular (11685)
9301 Frazier Pike
Little Rock, AR 72206

Priorities Found: **1 - High** **15 - Good**

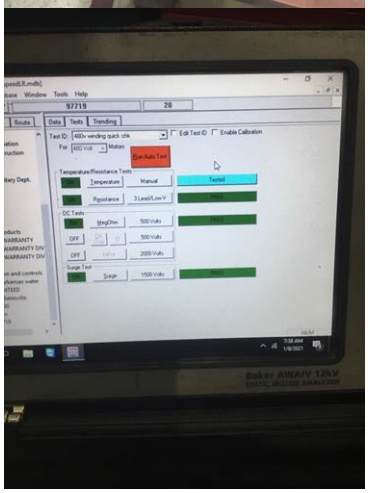
General

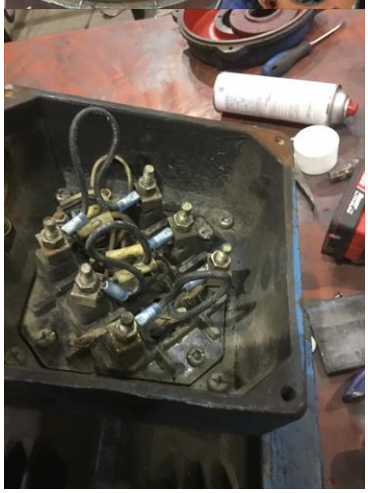
1.	Job Number	**97719**
2.	Report Date	
3.	Customer	

Name Plate Information

4.	Manufacturer	**motormen gmbh**

P5





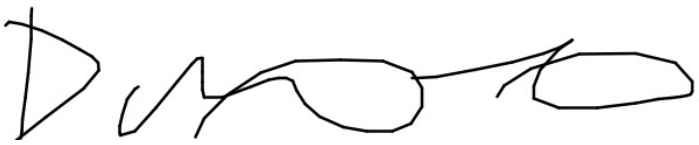
5.	Model	**FOM160L**
6.	Serial Number	**06062692**
7.	Horsepower	
8.	KW	**15 KW**
9.	Volts	**48 Volts**
10.	Amps	**28.6 Amps**
11.	RPM	**RPM**
12.	Frame	
13.	Enclosure	
14.	Cycles	
15.	Phase	

	16.	Service Factor	
	17.	Motor Mount Position	
Initial Inspection			
	18.	Number of Leads	**6**
	19.	Lead Length	**6 Inches**
	20.	Lead Size	**10**
●	21.	Lead Condition	**(P) Pass**
	22.	Lead Markings	**printed labels**
	23.	Lug Size, Condition, and Type	
●	24.	Winding RTD's	**(Y) Yes**
●	25.	Winding Rtd's Condition	**(P) Pass**
	26.	Shaft Run Out	
	27.	Does Shaft Turn Freely	**rough to turn**
	28.	Does Shaft Have Visible Damage	
	29.	Bearing Rtd's	**(NA) Not Applicable**
	30.	Bearing Rtd's Condition	
	31.	Contamination	
	32.	Frame Condition	
●	33.	Fan Condition	**(F) Fail**
		Fan and cover missing	
	34.	Broken or missing components	
		Fan and cover	
Initial Electric Test			
	35.	Resistance to Ground	**Mohm**
	36.	Winding Resistance 1-2	**Ohm**
	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	**28**
	47.	Number of Broken Rotor Bars	
●	48.	Growler Test	**(P) Pass**
●	49.	Rotor Condition	**(P) Pass**
Mechanical Inspection			
	50.	Bearing Manufacture	**NSK**
	51.	Bearing DE Size	**6309 2Z**
	52.	Bearing DE Type	**deep groove ball**
	53.	DE Bearing Qty.	**1**
	54.	Bearing ODE Size	**6309 2Z**
	55.	Bearing ODE Type	**deep groove ball**
	56.	ODE Bearing Qty.	**1**
	57.	Insulated Bearing	

	58.	Lubrication Type	
	59.	Grease Condition	
	60.	Bearing Retainers	
	61.	Shaft Grounding Device	
●	62.	DE Seal	**(Y) Yes**
	63.	DE Seal Type/Size	**45 62 12**
●	64.	ODE Seal	**(Y) Yes**
	65.	ODE Seal Type/Size	**45 62 12**

Root Cause of Failure

	66.	Component Failure	**contaminated bearings**
	67.	Cause of Failure ***Environmental***	
	68.	Comments ***2 - 45x56x12 seals*** ***2 - 6309 2Z bearings***	
	69.	Service Technician	**David Maclin**



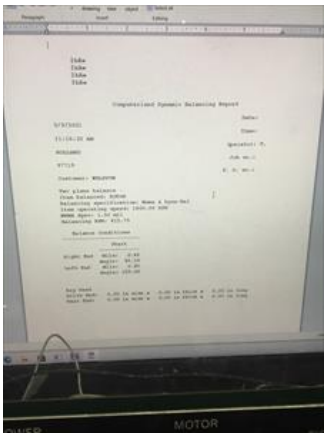
Machine Fit Inspection Report

	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	**1.772 "**
	75.	DE Initial Shaft Bearing Fit Size 2	**1.7721 "**
	76.	DE Initial Shaft Bearing Fit Size 3	**1.7719 "**
	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	**1.7721 "**
	82.	ODE Initial Shaft Bearing Fit Size 2	**1.7721 "**
	83.	ODE Initial Shaft Bearing Fit Size 3	**1.7721 "**
	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	**3.9373 "**
	95.	DE Initial Endbell Fit Size 2	**3.9373 "**

96.	DE Initial Endbell Fit Size 3	**3.9374 "**	
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	**3.9375 "**	
106.	ODE Initial Endbell Fit Size 2	**3.9374 "**	
107.	ODE Initial Endbell Fit Size 3	**3.9371 "**	
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	**David Maclin**	

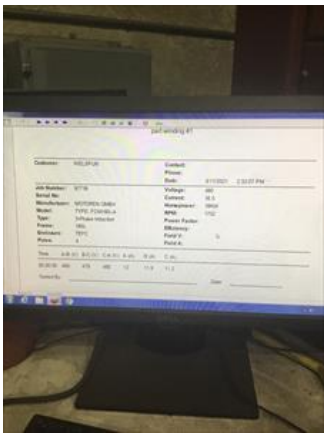
Balancing Report

119.	Balance Type	**nema**	P6



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	**Mohm**	
●	128. Surge Test	**(P) Pass**	
	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 **Terrence Holland**