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

AC Recondition Repair Report

FolderID: 97720
FormID: 9743225

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

Priorities Found: **2 - High** **14 - Good**

General

1.	Job Number	**97720**
2.	Report Date	
3.	Customer	**Welspun**

Name Plate Information

4.	Manufacturer	**Rodgau**	P5



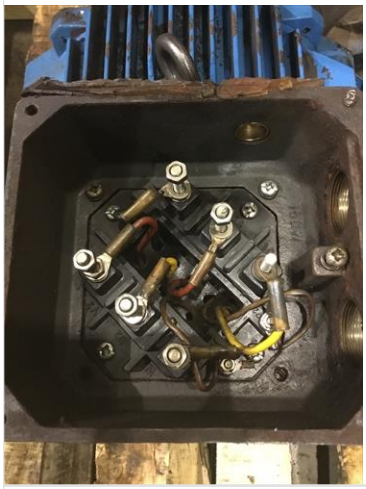






5.	Model	**FOM160L-4**
6.	Serial Number	**06062662**
7.	Horsepower	**18 HP**
8.	KW	
9.	Volts	**480 Volts**
10.	Amps	**16.5 Amps**
11.	RPM	**1752 RPM**
12.	Frame	**160L**
13.	Enclosure	**TEFC**
14.	Cycles	**60 HZ**
15.	Phase	**3 PH**

	16.	Service Factor		
	17.	Motor Mount Position		
Initial Inspection				
	18.	Number of Leads	**6**	P13



	19.	Lead Length		
	20.	Lead Size		
	21.	Lead Condition		
	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		
	28.	Does Shaft Have Visible Damage	**no**	P94

	29.	Bearing Rtd's		
	30.	Bearing Rtd's Condition		
	31.	Contamination ***Grease dirty/ contaminated***		
●	32.	Frame Condition	**(P) Pass**	P106

33.	Fan Condition	**(F) Fail**	P109

2ea blades broken.

34.	Broken or missing components

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** P58

42. Stator Condition **good** P65

43. Failure Location

Initial Rotor Inspection

44.	Rotor Type	**squirrel cage**	P4

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**	P50

Mechanical Inspection

50.	Bearing Manufacture	**nsk**	P1

51.	Bearing DE Size	**6309**	
52.	Bearing DE Type	**ball bearing**	
53.	DE Bearing Qty.	**1**	

54.	Bearing ODE Size	**6309**	
55.	Bearing ODE Type	**ball bearing**	P53

56.	ODE Bearing Qty.	**1**	
57.	Insulated Bearing		
58.	Lubrication Type	**grease**	
59.	Grease Condition	**(F) Fail**	
60.	Bearing Retainers	**(Y) Yes**	P80

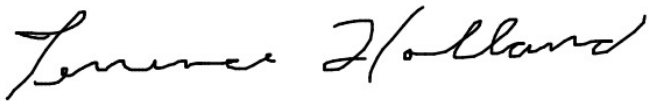
61.	Shaft Grounding Device	**(NA) Not Applicable**	
62.	DE Seal	**(Y) Yes**	
63.	DE Seal Type/Size	**45*62*12**	P90

64.	ODE Seal	**(Y) Yes**	

65.	ODE Seal Type/Size	**45*62*12**	P102

Root Cause of Failure

66.	Component Failure	**bearings**
67.	Cause of Failure ***Worn/dirty/contaminated grease***	
68.	Comments ***Recondition motor.***	
69.	Service Technician	**Terrence Holland**

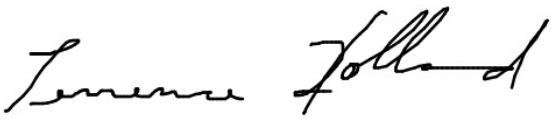


Machine Fit Inspection Report

●	70.	Shaft Run Out	**(P) Pass**
	71.	Initial Shaft Run Out	**0.002 "**
	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	**1.772 "**
	76.	DE Initial Shaft Bearing Fit Size 3	**1.772 "**
	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	**1.7718 "**
	82.	ODE Initial Shaft Bearing Fit Size 2	**1.7717 "**
	83.	ODE Initial Shaft Bearing Fit Size 3	**1.7716 "**
	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	

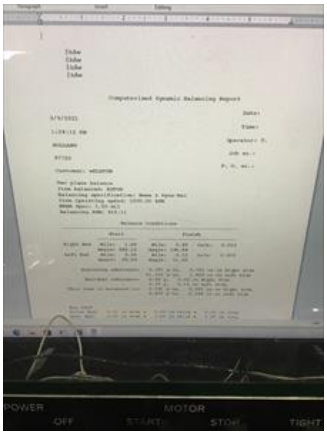
	91.	ODE Initial Air Seal Shaft Size		
	92.	ODE Final Air Seal Shaft Size		
●	93.	DE Endbell Fit	**(P) Pass**	
	94.	DE Initial Endbell Fit Size 1	**3.9368 "**	
	95.	DE Initial Endbell Fit Size 2	**3.937 "**	
	96.	DE Initial Endbell Fit Size 3	**3.9372 "**	
	97.	DE Final Endbell Fit Size 1		
	98.	DE Finial 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	**3.9372 "**	
	106.	ODE Initial Endbell Fit Size 2	**3.9371 "**	
	107.	ODE Initial Endbell Fit Size 3	**3.9372 "**	
	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**	P158

	118.	Service Technician	**Terrence Holland**



Balancing Report

119.	Balance Type	**nema standard**	P6

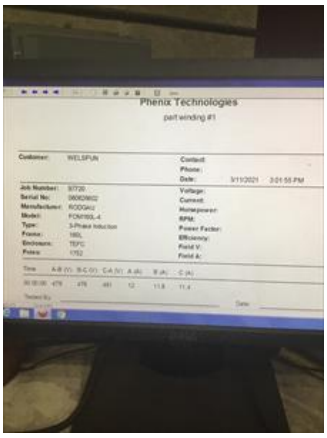


120.	Balance Operating Speed
121.	Start Left End
122.	Start Right End
123.	Balancing Specification
124.	Finish Left End
125.	Finish Right End
126.	Service Technician

Assembly and Final Test

127.	Meggar Testing Reading
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 **Terrence Holland**