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

AC Recondition Repair Report

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Community Water System (12207)
299 Lakeshore Drive
Greers Ferry, AR 72067

LR MOTORSHOP

Priorities Found: **1 - High** **17 - Good**

General

1.	Job Number	**97931**
2.	Report Date	**02/02/2021**
3.	Customer	**COMMUNITY WATER**

Name Plate Information

4.	Manufacturer	**TECO**	P5

5.	Model	**PDH05006TE2**
6.	Serial Number	**JO7397220003**
7.	Horsepower	**50**
8.	KW	
9.	Volts	**460**
10.	Amps	**53.5**
11.	RPM	**1180**
12.	Frame	**365T**
13.	Enclosure	**TEFC**
14.	Cycles	**60**
15.	Phase	**3**

	16.	Service Factor	**1.15**	
	17.	Motor Mount Position		

Initial Inspection

	18.	Number of Leads	**12**	P13

	19.	Lead Length	**7 Inches**	
	20.	Lead Size		
●	21.	Lead Condition	**(P) Pass**	
	22.	Lead Markings	**1-12**	
	23.	Lug Size, Condition, and Type		
	24.	Winding RTD's	**(NA) Not Applicable**	
●	25.	Winding Rtd's Condition	**(NA) Not Applicable**	
	26.	Shaft Run Out	**0.002**	
	27.	Does Shaft Turn Freely	**yes**	
	28.	Does Shaft Have Visible Damage	**no**	
	29.	Bearing Rtd's	**(NA) Not Applicable**	
●	30.	Bearing Rtd's Condition	**(NA) Not Applicable**	
	31.	Contamination		P104

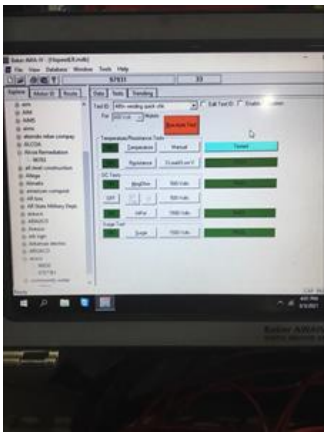
Yes

●	32.	Frame Condition	**(P) Pass**	
●	33.	Fan Condition	**(P) Pass**	P109

	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**	

Mechanical Inspection

	50.	Bearing Manufacture	**NSK**	
	51.	Bearing DE Size	**6313**	
	52.	Bearing DE Type	**regular ball bearing**	
	53.	DE Bearing Qty.	**1**	
	54.	Bearing ODE Size	**6213**	P43

	55.	Bearing ODE Type	**regular ball bearing**	
	56.	ODE Bearing Qty.	**1**	
	57.	Insulated Bearing	**no**	
	58.	Lubrication Type	**grease**	
●	59.	Grease Condition	**(F) Fail**	
		Grease contaminated		

60.	Bearing Retainers	**(Y) Yes**	P80

61.	Shaft Grounding Device	**(NA) Not Applicable**
62.	DE Seal	
63.	DE Seal Type/Size	
64.	ODE Seal	
65.	ODE Seal Type/Size	

Root Cause of Failure

66.	Component Failure	**bearings**	P2

67. Cause of Failure

Bearing grease contaminated

68. Comments

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	**2.5592 "**

	75.	DE Initial Shaft Bearing Fit Size 2	**2.5592 "**
	76.	DE Initial Shaft Bearing Fit Size 3	**2.5592 "**
	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	**2.5591 "**
	82.	ODE Initial Shaft Bearing Fit Size 2	**2.5591 "**
	83.	ODE Initial Shaft Bearing Fit Size 3	**2.5592 "**
	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	**5.5125 "**
	95.	DE Initial Endbell Fit Size 2	**5.5216 "**
	96.	DE Initial Endbell Fit Size 3	**5.5126 "**
	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	**4.7247 "**
	106.	ODE Initial Endbell Fit Size 2	**4.7248 "**
	107.	ODE Initial Endbell Fit Size 3	**4.7248 "**
	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	**Terrence Holland**

Balancing 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
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

159. Service Technician