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AC Inspection as Found AMERICAN COMPOSTING

11911 FAULKNER LAKE ROAD **NORTH LITTLE ROCK, AR 72217**

AC Inspection - Rev. 2

MOTOR SHOP LR Location: Serial Number: ES 2016 018914 ZP

Description: 17.3KW ELMOT-SCHAFER

1800RPM 160L

Hi-Speed Job Number:	101775
Manufacturer:	Other
Product Number:	TE 03E FA 160 L4B-40H
Serial Number:	ES 2016 018914 ZP
HP/kW:	17.3 (kW)
RPM:	1770 (RPM)
Frame:	160L
Voltage:	460
Current:	29.3
Phase:	Three
Hz:	60 (Hz)
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: **3 - High**

4 - Good

Overall Condition

Report Date 1.

P37 Nameplate Picture





Photos of all six sides of the machine.

P45





































4. Describe the Overall Condition of the Equipment as Received Serviceable

Initial Mechanical/Electrical



5. Does Shaft Turn Freely?

(Yes) Yes

(F) Fail

P55



- 7. Assembled Shaft Runout
- 8. Assembled Shaft End Play
- 9. Air Gap Variation <10%
- 10. Lead Condition

Excessive amounts of rust and corrosion



11.	Lead Length	6 Inches	
12.	Lead Numbers		
13.	Frame Condition	pass	
14.	Fan Condition	(P) Pass	P95



15. Broken or Missing Components

4 ea





19. Number of Stator Slots
20. Stator Condition
pass
21. Stator Thermistors/Ohms
22. Stator Overloads/Ohms

Mechanical Inspection
23. Drive End Bearing Brand
ORS
24. Drive End Bearing Number6309 EV1 C3
P30



25. Drive End Bearing Qty.





27. Drive End Lubrication Type	(Grease) Grease Lubricated	
28. Drive End Bearing Insulation or Grounding Device?	none	
29. Drive End Wavy Washer/Snap-Ring Other Retention Device?	none	
30. Drive End Bearing Condition	replace	
31. Opposite Drive End Bearing Brand	ORS	P86





32.	Opposite Drive End Bearing Number-	6209 EV1 C3	
33.	Opposite Drive End Bearing Qty.	1	
34.	Opposite Drive End Bearing Type	(Ball) Ball Bearing	
35.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
36.	Opposite Drive End Bearing Insulation or Grounding Device?	none	
37.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer	P98



38. Opposite Drive End Bearing Condition
39. Drive End Seal
45*72*10
P101



40. Opposite Drive End Seal 45*72*10 P102



Rotor Inspection



42.	Growler Test	(Pass) Pass
43.	Number of Rotor Bars	28
44.	Rotor Condition	rusted
45.	List the Parts needed for the Repair Below	
	Replace 4 ea end bell mount bolts. Re-sleeve both housing fits. both housing lip seals, 45*72*10	Replace 6309 & 6209 2Z bearings. Replace
46.	Signature of Technician that Disassembled Motor	Terrence Holland

L. Holland

M	echa	nical Fits- Rotor			
	47.	Shaft Runout		0.001 inches	
	48.	Rotor Runout			
		Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
	49.	Coupling Fit Closest to Bearing H	ousing		
		0 Degrees	90 Degrees	120 Degrees	
	50.	Coupling Fit Closest to the end of	the Shaft		
		0 Degrees	60 Degrees	120 Degrees	
	51.	Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
		1.7717	1.7178	1.7718	
	52.	Drive End Bearing Shaft Fit Cond	ition	(P) Pass	
	53.	Opposite Drive End Bearing Shaf	t Fit		
		0 Degrees	60 Degrees	120 Degrees	
		1.772	1.7719	1.772	
	54.	Opposite Drive End Bearing Shaf	t Fit Condition	(P) Pass	
	55.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		

Mecha	nical Fits- Bearing Housings			
56.	Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	•	•	•	
57.	Drive End - Endbell Bearing Fit Co	ondition	(F) Fail	
-	Excessive pitting and wear.			
58.	Opposite Drive End - Endbell Bea	ring Fit		
	0 Degrees	60 Degrees	120 Degrees	
59.	Opposite Drive End - Endbell Bea	ring Fit Condition	(F) Fail	
-	Excessive pitting and wear.			
60.	Bearing Cap Condition			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
61.	End Bell Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
62.	List Machine Work Needed Below			
63.	Technician		Terrence Holland	
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	7 //			
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Dynam	ic Balance Report			
64.	Rotor Weight and Balance Grade			
	Rotor Weight	Balance Grade		
65.	Initial Balance Readings			
	Drive End	Opposite Drive End		
66.	Final Balance Readings			
	Drive End	Opposite Drive End		
67.	Technician			
Rewind				
68.	Core Test Results - Watts loss pe			
	Pre-Burnout	Post Burnout		
69.	Core Hot Spot Test			
	Pre-Burnout	Post-Burnout		
70.	Post Rewind Electrical Test- Insula	ation Resistance		
71.	Post Rewind Polarization Index			
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72.	Post Rewind Winding Resistance 1-2	1-3	2-3	

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73.	Post Rewind Surge Test			
74.	Post Rewind Hi-Pot			
75.	Technician			
Root C	ause of Failure			
76.	Failure locations			
77.	Root cause of failure			
Mecha	nical Fits- Rotor - Post Repair			
78.	Shaft Runout Post Repair			
79.	Rotor Runout Post Repair			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
80.	Coupling Fit Closest to Bearing Ho	ousing Post Repair		
	0 Degrees	90 Degrees	120 Degrees	
		3	3	
81.	Coupling Fit Closest to the end of	the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
	<u> </u>	U	<u> </u>	
82.	Drive End Bearing Shaft Fit Post F	Repair		
	0 Degrees	60 Degrees	120 Degrees	
	3	3		
83.	Opposite Drive End Bearing Shaft	Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
84.	Shaft Air Seal Fits Post Repair			
	Drive End Air Seal	Opposite Drive End Air Seal		
	21110 2110 1 111 20011	7 pp		
85.	Shaft Repair Sign-off			
Mecha	nical Fits- Bearing Housings -	Post Repair		
86.	Drive End - Endbell Bearing Fit Po			
	0 Degrees	60 Degrees	120 Degrees	
		00 2 0g.000	0 _ 09.000	
87.	Opposite Drive End - Endbell Bea	ring Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
	5 <u>- 59</u> , 555	22 2 09.000	0 2 0 9 . 0 0 0	
88.	Bearing Cap Condition Post Repa	ir		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	2o 2a Dodning Oup	Trees. 2.110 End Boding Odp		
89.	End Bell Air Seal Fits Post Repair			
50.	Drive End Air Seal	Opposite Drive End Air Seal		
	zo z.na / iii oodi	TPOOL DIVO LING AN OOG		
90.	End Bell Repair Sign-off			
Assem	· -			
91.	QC Check All Parts for Cleanlines	s Prior to Assembly		
92.	Photograph All Major Components	•		
93.	Final Insulation Resistance Test	5 phot to assembly		
94.	Assembled Shaft Endplay			
95.	Assembled Shaft Runout			
95.	ASSEMBLEU SMALL KUMUU			

96.	Test Run Voltage		
	Volts	Volts	Volts
97.	Test Run Amperage		
	Amps	Amps	Amps
98.	Drive End Vibration Readings - In	ches Per Second	
	Horizontal	Vertical	Axial
99.	Opposite Drive End Vibration Rea	dings - Inches Per Second	
	Horizontal	Vertical	Axial
100.	Ambient Temperature - Fahrenhe	it	
101.	Drive End Bearing Temps - Fahre	nheit	
	5 Minutes	10 Minutes	15 Minutes
102.	Opposite Drive End Bearing Temp	os - Fahrenheit	
	5 Minutes	10 Minutes	15 Minutes
103.	Document Final Condition with Pi	ctures after paint	
104.	Final Pics and QC Review		