



AC Inspection as Found
DELTA PLASTICS OF THE SOUTH
3104 SOUTH MAIN STREET
STUTT GART, AR 72160

FolderID: 103851
FormID: 22522835

AC Inspection - Rev. 2

Location: Shop
Serial Number: TGR9216632001
Description: 300HP TECO 1188RPM

Hi-Speed Job Number:	103851
Manufacturer:	TECO Westinghouse
Product Number:	CAT: EP3006R
Spec/ID #:	TYPE: AEH118N
Serial Number:	TGR9216632001
HP/kW:	300 (HP)
RPM:	1188 (RPM)
Frame:	449T
Voltage:	460
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	6
J-box Included:	Complete
Stator RTDs:	No
Repair Stage:	Final
Rewind:	Yes
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: ● 1 - High ● 8 - Good

Overall Condition



- | | |
|----------------------|------------|
| 1. Report Date | 12/18/2024 |
| 2. Nameplate Picture | P37 |



- | | |
|--|-----|
| 3. Photos of all six sides of the machine. | P45 |
|--|-----|


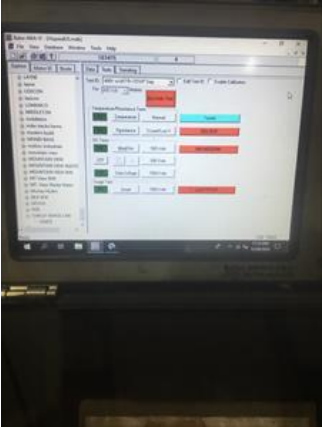



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4.	Describe the Overall Condition of the Equipment as Received	
	<i>Serviceable</i>	
5.	Distance from the end of the shaft to the Coupling/Sheave	inches
	<i>N/a</i>	
Initial Mechanical/Electrical		
6.	Does Shaft Turn Freely?	(Y) Yes
7.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
8.	Does Shaft Have Visible Damage?	(No) No
9.	Assembled Shaft Runout	Inches
	<i>Unable to capture</i>	
10.	Assembled Shaft End Play	inches
	<i>None</i>	
11.	Air Gap Variation <10%	
12.	Lead Condition	(P) Pass
13.	Lead Length	13 Inches
	<i>Inches</i>	
14.	Does it have Lugs?, If so what is the Stud Size?	(No) No
15.	Lead Numbers	1-6
16.	Bearing Temperature Detector Rating and Function	
	Quantity	Rating
		Quantity Passed
	<i>N/a</i>	
17.	Frame Condition	good

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18.	Fan Condition	(P) Pass	
19.	Broken or Missing Components	none	
Initial Electrical Inspection			
20.	Insulation Resistance/Megger	Megohms	
	<i>Unable to capture</i>		
21.	Winding Resistance		
	1-2	1-3	2-3
	<i>Unable to capture</i>		
22.	Perform Surge Test		P57
	<i>Unable to perform test. -water in housing</i>		
			
<i>After baking</i>			
23.	Number of Stator Slots	72	
24.	Stator Condition	serviceable	
25.	Stator Thermistors/Ohms		
	<i>N/a</i>		
26.	Stator Overloads/Ohms		
Mechanical Inspection			
27.	Drive End Bearing Brand	ntn	
28.	Drive End Bearing Number-	NU 320	P32
 			
29.	Drive End Bearing Qty.	1	
30.	Drive End Bearing Type	(Roller) Roller Bearing	
31.	Drive End Lubrication Type	(Grease) Grease Lubricated	

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32.	Drive End Bearing Insulation or Grounding Device?	none present	
33.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	none present	
34.	Drive End Bearing Condition	replace	
35.	Opposite Drive End Bearing Brand	skf	
36.	Opposite Drive End Bearing Number-	6316	P99




37.	Opposite Drive End Bearing Qty.	1
38.	Opposite Drive End Bearing Type	(Ball) Ball Bearing
39.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
40.	Opposite Drive End Bearing Insulation or Grounding Device?	none present
41.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	none present
42.	Opposite Drive End Bearing Condition	replace
43.	Drive End Seal	none present
44.	Opposite Drive End Seal	none present


Rotor Inspection




45.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
46.	Growler Test	(Pass) Pass
47.	Number of Rotor Bars	58
48.	Rotor Condition	rusty
49.	List the Parts needed for the Repair Below	
	<i>Rewind stator</i>	
50.	Signature of Technician that Disassembled Motor	Jeremey Edwards



Mechanical Fits- Rotor

51.	Shaft Runout	inches
	<i>Unable to capture</i>	
52.	Rotor Runout	
	Drive End Bearing Fit	Rotor Body
		Opposite Drive End Bearing

53.	Coupling Fit Closest to Bearing Housing		
	0 Degrees	90 Degrees	120 Degrees
	N/a		
54.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
	N/a		
55.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	3.9376	3.9378	3.9376
	3.9380"		
56.	Drive End Bearing Shaft Fit Condition		(P) Pass
57.	Opposite Drive End Bearing Shaft Fit		P89
	0 Degrees	60 Degrees	120 Degrees
	3.1498	3.1499	3.15
	3.5415"-shoulder 3.1498"-shaft		
			
58.	Opposite Drive End Bearing Shaft Fit Condition		(P) Pass
59.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
	N/a		
Mechanical Fits- Bearing Housings			
60.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	8.4665	8.4663	
61.	Drive End - Endbell Bearing Fit Condition		(F) Fail
62.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	6.6942	6.6942	6.6942
	6.694"		
63.	Opposite Drive End - Endbell Bearing Fit Condition		(P) Pass

64.	Bearing Cap Condition	
	Drive End Bearing Cap	Opposite Drive End Bearing Cap
	<div>Acceptable</div>	
65.	End Bell Air Seal Fits	
	Drive End Air Seal	Opposite Drive End Air Seal
	<div>N/a</div>	
66.	List Machine Work Needed Below	
	N/a	
67.	Technician	Jeremey Edwards
	<div></div> <div>Co sign: TRH</div>	
Root Cause of Failure		
68.	Failure locations	
	Windings & DE housing fit bad	
69.	Root cause of failure	P18
	Water penetration	
	<div><div></div><div></div></div>	
Dynamic Balance Report		
70.	Rotor Weight and Balance Grade	
	Rotor Weight	Balance Grade
71.	Initial Balance Readings	
	Drive End	Opposite Drive End
72.	Final Balance Readings	
	Drive End	Opposite Drive End
73.	Technician	
Rewind		

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74.	Core Test Results - Watts loss per Pound		
	Pre-Burnout	Post Burnout	
75.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
76.	Post Rewind Electrical Test- Insulation Resistance		
77.	Post Rewind Polarization Index		
78.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
79.	Post Rewind Surge Test		
80.	Post Rewind Hi-Pot		
81.	Technician		
Mechanical Fits- Rotor - Post Repair			
82.	Shaft Runout Post Repair		
83.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
84.	Coupling Fit Closest to Bearing Housing Post Repair		
	0 Degrees	90 Degrees	120 Degrees
85.	Coupling Fit Closest to the end of the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees
86.	Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
87.	Opposite Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
88.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
89.	Shaft Repair Sign-off		
Mechanical Fits- Bearing Housings - Post Repair			
90.	Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
91.	Opposite Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
92.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	

93.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
94.	End Bell Repair Sign-off		
Assembly			
95.	QC Check All Parts for Cleanliness Prior to Assembly		
96.	Photograph All Major Components prior to assembly		
97.	Final Insulation Resistance Test		
98.	Assembled Shaft Endplay		
99.	Assembled Shaft Runout		
100.	Test Run Voltage		
	Volts	Volts	Volts
101.	Test Run Amperage		
	Amps	Amps	Amps
102.	Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
103.	Opposite Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
104.	Ambient Temperature - Fahrenheit		
105.	Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
106.	Opposite Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
107.	Document Final Condition with Pictures after paint		
108.	Final Pics and QC Review		