

## **AC Inspection as Found**

Peco Foods 625 S. Allen Street Batesville, AR 72501

Location:

Shop Serial Number: C 05 7769144-0003 R 0002

Description: 150HP US MOTORS 1800RPM 445T

Heaters:

Winding Type :

Bearing Type:

Hi-Speed Job Number:	100289
Manufacturer:	US Motors/Nidec
Product Number:	HD150P2F
Spec/ID #:	C 05 7769144-0003 R 0002
HP/kW:	150 (HP)
RPM:	1790 (RPM)
Frame:	445T
Voltage:	460
Current:	171
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final

No

Random Wound

**Rolling Element** 

## Priorities Found: 🔵 1 - High

🔵 8 - Good

- **Overall Condition** 
  - 1. Report Date

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

> FolderID: 101289 FormID: 16612931

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2. Nameplate Picture





3. Photos of all six sides of the machine.









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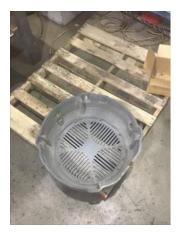






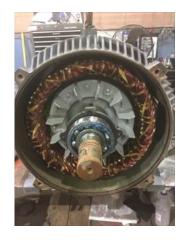


























4. Describe the Overall Condition of the Equipment as Received

## Initial Mechanical/Electrical

5. Does Shaft Turn Freely?

(Yes) Yes

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7.	Assembled Shaft Runout	0.002 Inches	
8.	Assembled Shaft End Play	inches	
9.	Air Gap Variation <10%		
10.	Lead Condition	(P) Pass	
11.	Lead Length		
12.	Frame Condition	pass	
13.	Fan Condition	(P) Pass	P93

14.	Broken or Missing Components		none	
Initial I	Electrical Inspection			o
15.	Insulation Resistance/Megger			
16.	Winding Resistance			
	1-2	1-3	2-3	

(No) No

		(P) Pass	P57
18.	Number of Stator Slots		
19.	Stator Condition		
20.	Stator Thermistors/Ohms		
21.	Stator Overloads/Ohms		
	nical Inspection		0
22.	Drive End Bearing Brand	FAG	
23.	Drive End Bearing Number-	6318	P32
24.	Drive End Bearing Qty.	1	

## 25. Drive End Bearing Type

(Ball) Ball Bearing







26.	Drive End Lubrication Type	(Grease) Grease Lubricated	
27.	Drive End Bearing Insulation or Grounding Device?	none	
28.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer	P72
29.	Drive End Bearing Condition	replace. Frosting on inner and outer races.	P78



30. Opposite Drive End Bearing Brand

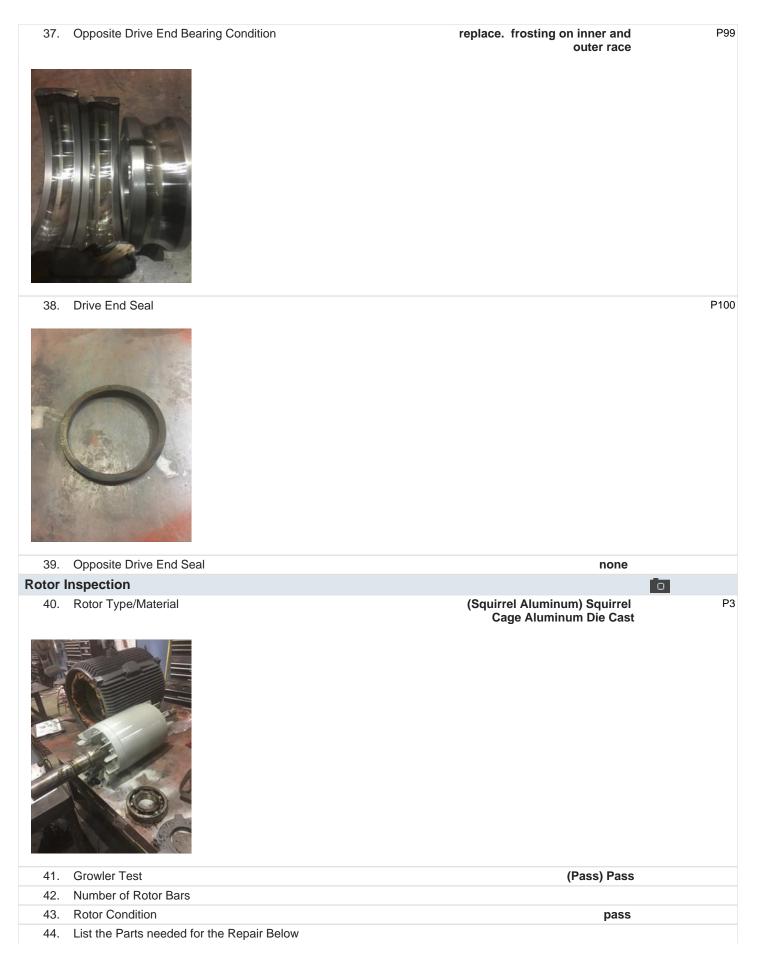


31. Opposite Drive End Bearing Number-	6313	
32. Opposite Drive End Bearing Qty.	1	
33. Opposite Drive End Bearing Type	(Ball) Ball Bearing	P92
34. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
35. Opposite Drive End Bearing Insulation or Grounding Dev	ice? none	
36. Opposite Drive End Wavy Washer/Snap-Ring Other Rete	ention Device? snap ring	

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KBC



	45.	Signature of Technician that Disa	assembled Motor	Terrence Holland	
M	echa	nical Fits- Rotor			
	46.	Shaft Runout		0.002 inches	
	47.	Rotor Runout			
		Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
	48.	Coupling Fit Closest to Bearing F	lousing		
		0 Degrees	90 Degrees	120 Degrees	
	49.	Coupling Fit Closest to the end o	f the Shaft		
		0 Degrees	60 Degrees	120 Degrees	
	50.	Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
		3.5444	3.5442	3.5443	
	51.	Drive End Bearing Shaft Fit Cond	dition	(P) Pass	
	52.	Opposite Drive End Bearing Sha	ft Fit		
		0 Degrees	60 Degrees	120 Degrees	
		2.5594	2.5594	2.5595	
	53.	Opposite Drive End Bearing Sha	ft Fit Condition	(P) Pass	
	54.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
M	echa	nical Fits- Bearing Housings			0
	55.	Drive End - Endbell Bearing Fit			
		0 Degrees	60 Degrees	120 Degrees	
		7.4808	7.481	7.4811	
	56.	Drive End - Endbell Bearing Fit C		(P) Pass	
	57.	Opposite Drive End - Endbell Bea			
		0 Degrees	60 Degrees	120 Degrees	
		5.5122	5.5124	5.5123	
	58.	Opposite Drive End - Endbell Bea	aring Fit Condition	(P) Pass	

	Bearing Cap Condition		P
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
2	Cartana		
60.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
61.	List Machine Work Needed Be	low	
	None		
62.	Technician	T	errence Holland
/		lad	
/-	/	lad	
ynan	nic Balance Report	Mad	
<b>bynan</b> 63.	Rotor Weight and Balance Gra		
-		ade Balance Grade	
-	Rotor Weight and Balance Gra Rotor Weight Initial Balance Readings		
63.	Rotor Weight and Balance Gra Rotor Weight		
63.	Rotor Weight and Balance Gra Rotor Weight Initial Balance Readings Drive End Final Balance Readings	Balance Grade Opposite Drive End	
63. 64.	Rotor Weight and Balance Gra Rotor Weight Initial Balance Readings Drive End	Balance Grade	
63. 64.	Rotor Weight and Balance Gra Rotor Weight Initial Balance Readings Drive End Final Balance Readings	Balance Grade Opposite Drive End	
<ul><li>63.</li><li>64.</li><li>65.</li></ul>	Rotor Weight and Balance Gra Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician	Balance Grade Opposite Drive End	
63. 64. 65. 66.	Rotor Weight and Balance Gra Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician	Balance Grade         Opposite Drive End         Opposite Drive End	
63. 64. 65. 66.	Rotor Weight and Balance Gra Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician	Balance Grade         Opposite Drive End         Opposite Drive End	
63. 64. 65. 66.	Rotor Weight and Balance Gra Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician d Core Test Results - Watts loss Pre-Burnout	Balance Grade Opposite Drive End Opposite Drive End s per Pound	
63. 64. 65. 66. <b>ewin</b> 67.	Rotor Weight and Balance Gra Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician d Core Test Results - Watts loss Pre-Burnout	Balance Grade Opposite Drive End Opposite Drive End s per Pound	
<ul> <li>63.</li> <li>64.</li> <li>65.</li> <li>66.</li> <li><b>66.</b></li> <li><b>67.</b></li> <li>68.</li> </ul>	Rotor Weight and Balance Gra Rotor Weight Initial Balance Readings Drive End Final Balance Readings Drive End Technician d Core Test Results - Watts loss Pre-Burnout Core Hot Spot Test	Balance Grade Opposite Drive End Opposite Drive End opposite Drive End Post Burnout Post Burnout	

70. Post Rewind Polarization Index

71.	Post Rewind Winding Resistance			
	1-2	1-3	2-3	
72.	Post Rewind Surge Test			
73.	Post Rewind Hi-Pot			
74.	Technician			
Root C	ause of Failure			
75.	Failure locations			
76.	Root cause of failure			
Mecha	nical Fits- Rotor - Post Repair			
77.	· · · · ·			
78.	Rotor Runout Post Repair			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
79.	Coupling Fit Closest to Bearing Ho	ousing Post Repair		
-	0 Degrees	90 Degrees	120 Degrees	
	0 2 0 9.000	00 209.000	120 203.000	
80.	Coupling Fit Closest to the end of	the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
	0 209.000	00 2091000	120 2091000	
81.	Drive End Bearing Shaft Fit Post F	Repair		
	0 Degrees	60 Degrees	120 Degrees	
	0 2 0 9.000	00 209.000	120 203.000	
82.	Opposite Drive End Bearing Shaft	Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
83.	Shaft Air Seal Fits Post Repair			
	Drive End Air Seal	Opposite Drive End Air Seal		
84.	Shaft Repair Sign-off			
Mecha	nical Fits- Bearing Housings -	Post Repair		
85.	Drive End - Endbell Bearing Fit Po	-		
	0 Degrees	60 Degrees	120 Degrees	
	0 209.000	00 2091000	120 2091000	
86.	Opposite Drive End - Endbell Bea	ring Fit Post Repair		
50.	0 Degrees	60 Degrees	120 Degrees	
	U Dogroco	U Degrees	120 Dogroes	
87.	Bearing Cap Condition Post Repa	ir		
57.	Drive End Bearing Cap	" Opposite Drive End Bearing Cap		
	Drive Lifu Bearing Cap	opposite Drive End Bearing Cap		
88.	End Bell Air Seal Fits Post Repair			
00.	Drive End Air Seal			
	Drive Enu Ali Seal	Opposite Drive End Air Seal		
00	End Boll Donair Sign off			
89.	End Bell Repair Sign-off			
Assem	•			
90.	QC Check All Parts for Cleanlines	s Prior to Assembly		

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91.	Photograph All Major Component	ts prior to assembly		
92.	Final Insulation Resistance Test			
93.	Assembled Shaft Endplay			
94.	Assembled Shaft Runout			
95.	Test Run Voltage			
	Volts	Volts	Volts	
96.	Test Run Amperage			
	Amps	Amps	Amps	
97.	Drive End Vibration Readings - Ir	nches Per Second		
	Horizontal	Vertical	Axial	
98.	Opposite Drive End Vibration Rea	adings - Inches Per Second		
	Horizontal	Vertical	Axial	
99.	Ambient Temperature - Fahrenhe	Pit		
100.	Drive End Bearing Temps - Fahre	enheit		
	5 Minutes	10 Minutes	15 Minutes	
101.	Opposite Drive End Bearing Tem	ps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes	
102.	Document Final Condition with P	ctures after paint		