

MOTOR SHOP LR

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

> FolderID: 102785 FormID: 20093748

AC Inspection as Found Tyson Foods (10914)

1238 Market Street Clarksville, AR 72830

Location:

AC Inspection - Rev. 2

Serial Number: FX6125A

Description:PUMP

Hi-Speed Job Number:	102785
Manufacturer:	Other
Product Number:	6125-0027
Serial Number:	FX6125A
HP/kW:	7.5 (HP)
RPM:	1750 (RPM)
Frame:	SUBPUMP
Voltage:	220-240
Current:	22 (Amps)
Phase:	Three
Enclosure:	Submersible
# of Leads:	3
J-box Included:	None
Coupling/Sheave:	Propeller
Date Received:	04/15/2024
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Rewind:	Yes
Shaft Machined Fit Repairs Required:	Yes
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: **a** 2 - High

6 - Good

Overall Condition

Report Date

04/25/2024





3. Photos of all six sides of the machine.













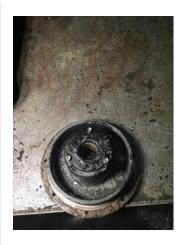






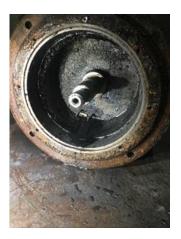




















4.	Describe the Overall Condition	of the Equipment as Received			
	Serviceable				
5.	Distance from the end of the sh	naft to the Coupling/Sheave		inches	
-	Na				
Initial I	Mechanical/Electrical				
6 .	Does Shaft Turn Freely?			(Y) Yes	
7 .	Does the shaft require T.I.R in	Lathe to identify additional rep	airs?	(No) No	
8.	Does Shaft Have Visible Dama	ige?		(Yes) Yes	
-	Seal surface worn.				
9.	Assembled Shaft Runout			Inches	
-	Na				
10.	Assembled Shaft End Play			inches	
-	Na				
11.	Air Gap Variation <10%			na	
12.	Lead Condition				
-	Replace sensor and power cord Sensor cord is 5C-18 AWG- 25' I Power cord is 4C-8AWG-25' L				
13.	Lead Length			8 Inches	
14.	Does it have Lugs?, If so what	is the Stud Size?		(Yes) Yes	
15.	Lead Numbers			1-3	
16.	Frame Condition			pass	
17.	Fan Condition			(N) NA	
18.	Broken or Missing Components	S			
-	Replace seal plate hex head state	inless steel bolts.			
Initial E	Initial Electrical Inspection				
19.	Insulation Resistance/Megger			Megohms	
-	Na				
20.	Winding Resistance				
	1-2	1-3	2-3		
-	Na				

Motor windings shorted in coil.

21. Perform Surge Test





22.	Number of Stator Slots	36	
23.	Stator Condition	rewind	
24.	Stator Thermistors/Ohms	na	
25.	Stator Overloads/Ohms	0.7	
Mechai	Mechanical Inspection		
26.	Drive End Bearing Brand		
-	Not listed		
27.	Drive End Bearing Number-	6308	
28.	Drive End Bearing Qty.	1	







30.	Drive End Lubrication Type	(Oil) Oil Lubricated	
31.	Drive End Bearing Insulation or Grounding Device?		
-	Na		
32.	Drive End Wavy Washer/Snap-Ring Other Retention Device?		
-	Na		
33.	Drive End Bearing Condition	replace	
34.	Opposite Drive End Bearing Brand	WJB	
35.	Opposite Drive End Bearing Number-	6303	P99





36. Opposite Drive End Bearing Qty.

37. Opposite Drive End Bearing Type

(Ball) Ball Bearing

38.	Opposite Drive End Lubrication Type	(Oil) Oil Lubricated		
39.	Opposite Drive End Bearing Insulation or Grounding Device?	none		
40.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer		
41.	Opposite Drive End Bearing Condition	replace		
42.	Drive End Seal	carbon ceramic		
-	#D-1250-352			
43.	Opposite Drive End Seal	carbon ceramic		
Rotor	Rotor Inspection			

Rotor Type/Material

(Squirrel Aluminum) Squirrel **Cage Aluminum Die Cast** P3





45. **Growler Test** (Pass) Pass 46. Number of Rotor Bars 48 47. Rotor Condition pass

48. List the Parts needed for the Repair Below

2 ea. carbon ceramic seals # D-1250-352 8 ea. stainless steel hex head, seal mount plate bolts. 1/4*20*1/2" Rewind stator & repair shaft seal surface, and DE bearing fit. Replace power & sensor cords.

49. Signature of Technician that Disassembled Motor

Terrence Holland

Witness: Trevor Hall

Mechanical Fits- Rotor

50. Shaft Runout 0.005 inches

51. Rotor Runout

Drive End Bearing Fit Rotor Body Opposite Drive End Bearing

Coupling Fit Closest to Bearing Housing

0 Degrees 90 Degrees 120 Degrees

Na

	53.				
		0 Degrees	60 Degrees	120 Degrees	
	7	Na			
	54.	Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
		1.5746	1.5746	1.5746	
	-	Minimum allowed is 1.5749			
	55.	Drive End Bearing Shaft Fit Cond	lition	(F)	Fail
	56.	Opposite Drive End Bearing Shafe	t Fit		
		0 Degrees	60 Degrees	120 Degrees	
		0.6695	0.6695	0.6695	
	57.	Opposite Drive End Bearing Shafe	t Fit Condition	(P) F	ass
	58.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
	-	Na			
M	echai	nical Fits- Bearing Housings			
	59.	Drive End - Endbell Bearing Fit			
		0 Degrees	60 Degrees	120 Degrees	
		3.544	3.5442	3.54	
	60.	Drive End - Endbell Bearing Fit C	ondition	(P) F	ass
	61.	Opposite Drive End - Endbell Bea	aring Fit		
		0 Degrees	60 Degrees	120 Degrees	
		1.5746	1.5748	1.5748	
	62.	Opposite Drive End - Endbell Bea	aring Fit Condition	(P) F	ass
	63.	Bearing Cap Condition			
		Drive End Bearing Cap	Opposite Drive End Bearing Cap		
		pass	na		
	64.	End Bell Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
	-	Na			
	65.	List Machine Work Needed Belov	V		
		D.E. Shaft seal surface worn. And	de shaft bearing journal bad.		
	66.	Technician		Terrence Holla	and
			/ // /		
		7 //			
		Land de	Cl		
	/		_ /		
	-	Witness: Trevor Hall			
R۵	oot C	ause of Failure			Т
	67.	Failure locations			
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Windings, power cord, seals and housing and shaft fit on DE.

68. Root cause of failure

Outer seal seat was found to be cracked. This allowed water to enter the stator and cause a short circuit in the stator coils.





