



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

## AC Inspection as Found

Draslovka  
2571 Fite Road  
Millington, TN 38057

FolderID: 153435  
FormID: 21298642



### AC Inspection - Rev. 2

Completed by: JAMES VALENTINE on  
08/14/2024

Location: Default

Serial Number:

Description: 250 Hp Allis Chalmers

Hi-Speed Job Number:	153435
Manufacturer:	Allis Chalmers
Serial Number:	1-511347636-1-1
HP/kW:	250 (HP)
RPM:	1780 (RPM)
Frame:	507 US
Voltage:	460
Current:	282 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
# of Leads:	6
J-box Included:	None
Coupling/Sheave:	Coupling
Date Received:	08/12/2024
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Rewind:	No
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: ● 2 - High ● 55 - Good

### Overall Condition



● 1. Report Date

08/14/2024

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## 2.



Printed on 8/19/2024



4.	Describe the Overall Condition of the Equipment as Received		
	<i>Good</i>		
5.	Distance from the end of the shaft to the Coupling/Sheave	0 inches	
6.	Report Date [COPY]		
Initial Mechanical/Electrical			<input type="checkbox"/>
7.	Does Shaft Turn Freely?	(Y) Yes	
8.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No	
9.	Does Shaft Have Visible Damage?	(No) No	
10.	Assembled Shaft Runout	0.002 Inches	
11.	Assembled Shaft End Play	0.002 inches	
12.	Air Gap Variation <10%		
13.	Lead Condition	(P) Pass	
14.	Lead Length	25 Inches	
15.	Does it have Lugs?, If so what is the Stud Size?	(Yes) Yes	
	3/8		
16.	Lead Numbers	t1-t3	
17.	Frame Condition	good	
18.	Fan Condition	(F) Fail	P18



19. Broken or Missing Components fan

### Initial Electrical Inspection

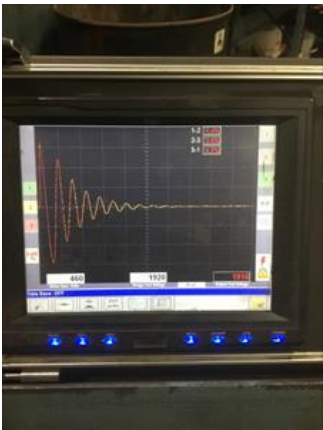




1-2


1-3

2-3




Mechanical Inspection

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28.	Drive End Bearing Number-	6315
29.	Drive End Bearing Qty.	1
30.	Drive End Bearing Type	(Ball) Ball Bearing
31.	Drive End Lubrication Type	(Grease) Grease Lubricated
32.	Drive End Bearing Insulation or Grounding Device?	none
33.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	none
34.	Drive End Bearing Condition	good
35.	Opposite Drive End Bearing Brand	ntn
36.	Opposite Drive End Bearing Number-	6315
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
41.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	none
42.	Opposite Drive End Bearing Condition	good
43.	Drive End Seal	
44.	Opposite Drive End Seal	
<b>Rotor Inspection</b>		
45.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
46.	Growler Test	(Pass) Pass
47.	Number of Rotor Bars	50
48.	Rotor Condition	good
49.	List the Parts needed for the Repair Below 2-6315 bearings 1-aluminum fan	
50.	Signature of Technician that Disassembled Motor	James Valentine
		
<b>Mechanical Fits- Rotor</b>		
51.	Shaft Runout	
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	
	2.6235	2.6235
54.	Coupling Fit Closest to the end of the Shaft	
	0 Degrees	60 Degrees
	120 Degrees	
	2.624	2.624
55.	Drive End Bearing Shaft Fit	
	0 Degrees	60 Degrees
	120 Degrees	
	2.953	2.953
	2.9534-2.9529	
56.	Drive End Bearing Shaft Fit Condition	(P) Pass

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57.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	2.9529	2.9529	2.9529
58.	Opposite Drive End Bearing Shaft Fit Condition		(P) Pass
59.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
<b>Mechanical Fits- Bearing Housings</b>			
60.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	6.2992	6.2992	6.2992
	6.2992-6.3002		
61.	Drive End - Endbell Bearing Fit Condition		(P) Pass
62.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	6.3002	6.3002	6.3002
	6.2992-6.3002		
63.	Opposite Drive End - Endbell Bearing Fit Condition		(P) Pass
64.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	good	good	
65.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
66.	List Machine Work Needed Below		
	None		
67.	Technician		James Valentine
			
<b>Root Cause of Failure</b>			
68.	Failure locations		
	Recondition		
69.	Root cause of failure		
	N/a		