

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

> FolderID: 103348 FormID: 21258032

AC Inspection as Found Union Pacific-Vine St 10945

1020 N. Vine Street North Liittle Rock, AR

AC Inspection - Rev. 2

Location: Shop Serial Number: 12466

Description: 1.13/6.8HP OMI HOIST MOTOR

Hi-Speed Job Number:	103348
Manufacturer:	Other
Product Number:	2-5-33LH41-16T
Serial Number:	12466
HP/kW:	1.13 (HP)
RPM:	500 (RPM)
Voltage:	460
Current:	0.88
Phase:	Three
Hz:	60 (Hz)
Enclosure:	TEFC
# of Leads:	6
J-box Included:	Half
Coupling/Sheave:	Brake
Date Received:	08/09/2024
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
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: 1 - High

7 - Good

Overall Condition

Report Date

08/12/2024



3. Photos of all six sides of the machine.



P45





















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	4.	Describe the Overall Condition of the Equipment as Received		
		Serviceable, but missing DE housing.		
	5.	Distance from the end of the shaft to the Coupling/Sheave	inches	
	6.	Report Date [COPY]	08/12/2024	
In	Initial Mechanical/Electrical			Ō
	7.	Does Shaft Turn Freely?	(N) No	
	•	ODE. bearing is locked up.		
	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	Inches	
	11.	Assembled Shaft End Play	inches	
	12.	Air Gap Variation <10%		
	13.	Lead Condition	(P) Pass	
	14.	Lead Length	6 Inches	
	15.	Does it have Lugs?, If so what is the Stud Size?	(No) No	
	16.	Lead Numbers		
	•	1,2,3 & 4,5 6		
	17.	Frame Condition	pass	
	18.	Fan Condition	(P) Pass	P116



19. Broken or Missing Components

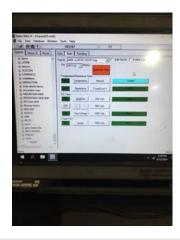
fan cover missing2 bolts

Initial Electrical Inspection



P20

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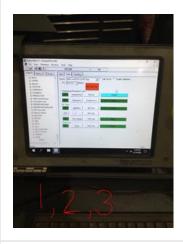


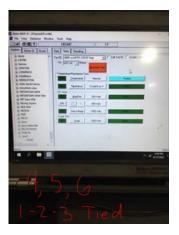
Winding Resistance

1-2 1-3 2-3



P57 Perform Surge Test





Number of Stator Slots 36 23.

Stator Condition pass

25. Stator Thermistors/Ohms

26. Stator Overloads/Ohms

Mechanical Inspection

Drive End Bearing Brand

28.	Drive End Bearing Number-		
29.	Drive End Bearing Qty.		
30.	Drive End Bearing Type		
31.	Drive End Lubrication Type		
32.	Drive End Bearing Insulation or Grounding Device?		
33.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer	
34.	Drive End Bearing Condition	locked up	
35.	Opposite Drive End Bearing Brand	FAG	
36.	Opposite Drive End Bearing Number-	6207	P100





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?	na	
41.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer	
42.	Opposite Drive End Bearing Condition	locked up	
43.	Drive End Seal		
44.	Opposite Drive End Seal		
Rotor I	Inspection		ō
45.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
46.	Growler Test	(Pass) Pass	
47.	Number of Rotor Bars	40	
48.	Rotor Condition	pass	P41



	49.	List the Parts needed for the Repair Below Bearing and brake assembly			
	50.	Signature of Technician that Disas	essembled Motor	Terrence Holland	
Me	echar	nical Fits- Rotor			
	51.	Shaft Runout		0.001 inches	
	52.	Rotor Runout			
		Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
	53.	Coupling Fit Closest to Bearing Ho	ousing		
		0 Degrees	90 Degrees	120 Degrees	
	54.	Coupling Fit Closest to the end of	the Shaft		
		0 Degrees	60 Degrees	120 Degrees	
	55.	Drive End Bearing Shaft Fit	00.5	400 B	
		0 Degrees 1.3	60 Degrees	120 Degrees	
	56.	Drive End Bearing Shaft Fit Condi	tion	(P) Pass	
	57.	Opposite Drive End Bearing Shaft		(1)1 400	
		0 Degrees	60 Degrees	120 Degrees	
		1.3781	1.3781	1.378	
	58.	Opposite Drive End Bearing Shaft	Fit Condition	(P) Pass	
	59.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
Me	echar	nical Fits- Bearing Housings			
	60.	Drive End - Endbell Bearing Fit			
		0 Degrees	60 Degrees	120 Degrees	
1	-	Not shipped with equipment			
	61.				
	•	Not shipped with motor			
	62.	Opposite Drive End - Endbell Bea	ring Fit		
		0 Degrees	60 Degrees	120 Degrees	
		2.835	2.8348	2.8349	
	63.	Opposite Drive End - Endbell Bea	ring Fit Condition	(P) Pass	
	64.	Bearing Cap Condition	0 " 0 " 5 " 5 " 0		
		Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	65.	End Bell Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		

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 List Machine Work Needed Below None

67. Technician Terrence Holland

J- Oplu-

Witness:

68. Failure locations

Root Cause of Failure

_____P9

o

Brake assembly wear plates worn, and brake pad cracked on edges. ODE bearing completely locked up from worn out lubricants









69. Root cause of failure

ODE bearing was completely locked up.

Dynamic Balance Report

70. Rotor Weight and Balance Grade

Rotor Weight Balance Grade

71. Initial Balance Readings

Drive End Opposite Drive End

Drive End

Opposite Drive End

73. Technician

Assembly

0

74. QC Check All Parts for Cleanliness Prior to Assembly

Terrence Holland











77.	Assembled Shaft Endplay in			
78.	Assembled Shaft Runout			
79.	Test Run Voltage			
	Volts	Volts	Volts	
-	Cannot run motor because of the missing de housing.			
80.	D. Test Run Amperage			
	Amps	Amps	Amps	
81.	Drive End Vibration Readings - Inches Per Second			
	Horizontal	Vertical	Axial	
82.	. Opposite Drive End Vibration Readings - Inches Per Second			
	Horizontal	Vertical	Axial	
83.	3. Ambient Temperature - Fahrenheit			
84.	Drive End Bearing Temps - Fahre	enheit		
	5 Minutes	10 Minutes	15 Minutes	
85.	5. Opposite Drive End Bearing Temps - Fahrenheit			
	5 Minutes	10 Minutes	15 Minutes	
86.	6. Document Final Condition with Pictures after paint			
87.	Final Pics and QC Review		Terrence Holland	P132

Witness: CRW

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