

# LR Motor Shop Repairs

## **Job Number 103181**

Prepared for Union Pacific-Vine St 10945

1020 N. Vine Street North Liittle Rock AR

### **Table of Contents**

AC Inspection as Found - Shop

AC Inspection - Rev. 2: 5105/4757212

1.0



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

> FolderID: 103181 FormID: 20878739

#### **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: 5105/4757212

Description:STROMAG EDDY CURRENT

BRAKE

Manufacturer: STROMAG  Product Number: IBV-36 FM  Serial Number: 5105/4757212  Voltage: 110-120  Current: 3.1A  Phase: Three  Hz: 60 (Hz)  Enclosure: DP  # of Leads: 2  J-box Included: Complete  Coupling/Sheave: Coupling  Date Received: 07/01/2024  Bearing RTDs: No  Stator RTDs: No  Repair Stage: Final  Rewind: No  Shaft Machined Fit Repairs Required:  Bearing Housing Machined Fit Repairs Required:  Heaters: No  Winding Type: Random Wound	Hi-Speed Job Number:	103181
Serial Number: 5105/4757212  Voltage: 110-120  Current: 3.1A  Phase: Three  Hz: 60 (Hz)  Enclosure: DP  # of Leads: 2  J-box Included: Complete  Coupling/Sheave: Coupling  Date Received: 07/01/2024  Bearing RTDs: No  Stator RTDs: No  Repair Stage: Final  Rewind: No  Shaft Machined Fit Repairs Required:  Bearing Housing Machined Fit Repairs Required:  Heaters: No  Winding Type: Random Wound	Manufacturer:	STROMAG
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Date Received: 07/01/2024  Bearing RTDs: No  Stator RTDs: No  Repair Stage: Final  Rewind: No  Shaft Machined Fit Repairs No Required:  Bearing Housing Machined Fit Repairs Required:  Heaters: No  Winding Type: Random Wound	J-box Included:	Complete
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Rewind: No  Shaft Machined Fit Repairs No Required:  Bearing Housing Machined No Fit Repairs Required:  Heaters: No  Winding Type: Random Wound	Stator RTDs:	No
Shaft Machined Fit Repairs No Required: Bearing Housing Machined No Fit Repairs Required: Heaters: No Winding Type: Random Wound	Repair Stage:	Final
Required:  Bearing Housing Machined No Fit Repairs Required:  Heaters: No  Winding Type: Random Wound	Rewind:	No
Fit Repairs Required: Heaters: No Winding Type: Random Wound		No
Winding Type : Random Wound		No
3 -7	Heaters:	No
	Winding Type :	Random Wound
Bearing Type: Rolling Element	Bearing Type:	Rolling Element

Priorities Found: 12 - Good

#### **Overall Condition**

1. Report Date

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#### 2. Nameplate Picture



#### 3. Photos of all six sides of the machine.



























	4.	Describe the Overall Condition of the Equipment as Received  Dirty			
	5.	Distance from the end of the shaft to the Coupling/Sheave	inches		
	-	Flush			
In	nitial	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	0.001 Inches		
	10.	Assembled Shaft End Play	inches		
	11.	Air Gap Variation <10%			
	12.	Lead Condition	(P) Pass		
	13.	Lead Length	35 Inches		
	14.	Does it have Lugs?, If so what is the Stud Size?	(No) No		
	15.	Lead Numbers	1-2		
	16.	Frame Condition			
	17.	Fan Condition			
	18.	Broken or Missing Components			
In	Initial Electrical Inspection				
	19.	Insulation Resistance/Megger	Megohms		

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<b>2</b> 0.	Winding Resistance		
	1-2	1-3	2-3
21.	Perform Surge Test		
22.	Number of Stator Slots		
23.	Stator Condition		
24.	Stator Thermistors/Ohms		
25.	Stator Overloads/Ohms		
Mech	anical Inspection		
26.	Drive End Bearing Brand		skf
27.	Drive End Bearing Number-		6314-2RS



28. Drive End Bearing Qty.	1
29. Drive End Bearing Type	(Ball) Ball Bearing
30. Drive End Lubrication Type	
31. Drive End Bearing Insulation or Grounding Device?	
32. Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring
33. Drive End Bearing Condition	
Signs of contamination	



34. Opposite Drive End Bearing Brand	skf
35. Opposite Drive End Bearing Number-	6314-2RS
36. Opposite Drive End Bearing Qty.	1
37. Opposite Drive End Bearing Type	(Ball) Ball Bearing

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38. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
39. Opposite Drive End Bearing Insulation or Grounding Device?	
40. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring
41. Opposite Drive End Bearing Condition	
Signs of contamination	



42.	Drive End Seal
43.	Opposite Drive End Seal

### **Rotor Inspection**

- 44. Rotor Type/Material
- 45. Growler Test
- 46. Number of Rotor Bars
- 47. Rotor Condition
- 48. List the Parts needed for the Repair Below 6314-2RS x 2
- 49. Signature of Technician that Disassembled Motor

Cw

Min
Mechanical Fits- Rotor

Mechanical Fits- Rotor					
50.	Shaft Runout		inches		
51.	Rotor Runout				
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing		
52.	Coupling Fit Closest to Bearing Housi	ng			
	0 Degrees	90 Degrees	120 Degrees		
53.	Coupling Fit Closest to the end of the	Shaft			
	0 Degrees	60 Degrees	120 Degrees		
54.	Drive End Bearing Shaft Fit				
	0 Degrees	60 Degrees	120 Degrees		
55.	Drive End Bearing Shaft Fit Condition		(P) Pass		

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		On a site Daise Ford Describes Obert Fit			
,	56.	Opposite Drive End Bearing Shaft Fit	00.5	100 B	
		0 Degrees	60 Degrees	120 Degrees	
	<b>-</b> 7	Opposite Drive Ford Bearing Chaft Fit			(D) Door
	57.	11	Condition		(P) Pass
	58.				
		Drive End Air Seal	Opposite Drive End Air Seal		
D.4 -	- 1	orientelle and a literature			
		anical Fits- Bearing Housings			
	59.	Drive End - Endbell Bearing Fit		_	
		0 Degrees	60 Degrees	120 Degrees	
	00	Drive Food Foodball Bearing Fit Condi	tian.		(D) Door
_					(P) Pass
,	61.	Opposite Drive End - Endbell Bearing		400 B	
		0 Degrees	60 Degrees	120 Degrees	
	62.	Opposite Drive End - Endbell Bearing	Fit Condition		(P) Pass
_		Bearing Cap Condition	The Condition		(1 ) 1 433
,	03.		Opposite Drive End Booring Con		
		Drive End Bearing Cap	Opposite Drive End Bearing Cap		
-	64	End Bell Air Seal Fits			
·	· · ·	Drive End Air Seal	Opposite Drive End Air Seal		
		Dive End All Gedi	Opposite Drive End Air Ocal		
(	65.	List Machine Work Needed Below			
(	66.	Technician			Cw
		Min			
		111000			
Ro	ot (	Cause of Failure			
(	67.	Failure locations			
		Bearings			
(	68.	Root cause of failure			
		Old grease hardened causing ball drag	and contamination		
Dv	nan	nic Balance Report			
_		Rotor Weight and Balance Grade			
		Rotor Weight	Balance Grade		
		Notor Weight	Balarioe Grade		
	70.	Initial Balance Readings			
		Drive End	Opposite Drive End		
			-11		
	71.	Final Balance Readings			
		Drive End	Opposite Drive End		
	72.	Technician			
As	Assembly				

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74. Photograph All Major Components prior to assembly

(Complete) Complete



75.	Final Insulation Resistance Test		Megohms
-	Pass		
76.	Assembled Shaft Endplay		inches
77.	Assembled Shaft Runout		inches
78.	Test Run Voltage		
	Volts	Volts	Volts
79.	Test Run Amperage		
	Amps	Amps	Amps
80.	Drive End Vibration Readings - Inches		
	Horizontal	Vertical	Axial
04	31. Opposite Drive End Vibration Readings - Inches Per Second		
81.			
	Horizontal	Vertical	Axial
82.	. Ambient Temperature - Fahrenheit		
83.	Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
84.	. Opposite Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
05	Document Final Condition with Biotura	og after point	
00.	. Document Final Condition with Pictures after paint		

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86. Final Pics and QC Review

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Co sign: RRW



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