

Motor Shop Repairs

Job Number 99706

Prepared for Arauco-Malvern MDF (10298)

1275 Willamette Rd Malvern AR 72104

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AC Recondition As Found - LR MOTORSHOP

AC Recondition - Rev. 2: 4X321085A2-GU

1.0



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

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AC Recondition As Found

Arauco-Malvern MDF (10298)

1275 Willamette Rd Malvern, AR 72104

AC Recondition - Rev. 2

Location: LR MOTORSHOP

Serial Number: 4X321085A2-GU

Description:100HP Reliance 1200RPM 444TS

Hi-Speed Job Number:	99706
Manufacturer:	Reliance
Serial Number:	4X321085A2-GU
HP/kW:	100 (HP)
RPM:	1180 (RPM)
Frame:	444TS
Voltage:	230 / 460
Current:	240/120
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	ODP
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	04/22/2022
Repair Stage:	Final
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	Yes

Priorities Found: **a** 2 - High



5 - Good

Overall Condition

1. Report Date

2. Nameplate Picture









3. Describe the Overall Condition of the Equipment as Received Covered in saw dust

Initial Mechanical/Electrical

In	Initial Mechanical/Electrical				
	4.	Does Shaft Turn Freely?			(Yes) Yes
	5.	Does Shaft Have Visible Damage?			(No) No
	6.	Assembled Shaft Runout			
	7.	Assembled Shaft End Play			
	8.	Air Gap Variation <10%			
	9.	Lead Condition			(P) Pass
	10.	Lead Length			14 Inches
	11.	Stator Temperature Detector Rating a	nd Function		
		Quantity	Rating	Quantity Passed	
	7	Na			
	12.	Bearing Temperature Detector Rating	and Function		
		Quantity	Rating	Quantity Passed	
	-	Na			
	13.	Frame Condition			pass
	14.	Fan Condition			(N) NA
	15.	Heater Quantity, Ratings			
		Quantity	Volts/Watts	Pass/Fail	
	-	Na			

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	Broken or Missing Components		na
Initial	l Electrical Inspection		
17.			
18.	Winding Resistance		
	1-2	1-3	2-3
19.	Perform Surge Test		(P) Pass
20.	Stator Condition		
Mecha	anical Inspection		
	Drive End Bearing Number-		6213
22.	Drive End Bearing Qty.		1
23.	Drive End Bearing Type		(Ball) Ball Bearing
24.	Drive End Lubrication Type		(Grease) Grease Lubricated
25.	Drive End Bearing Insulation or Grou	nding Device?	na
26.			na
27.			contamination
28.	Opposite Drive End Bearing Number-		6213
29.	Opposite Drive End Bearing Qty.		1
30.	Opposite Drive End Bearing Type		(Ball) Ball Bearing
31.	Opposite Drive End Lubrication Type		(Grease) Grease Lubricated
32.	Opposite Drive End Bearing Insulatio	n or Grounding Device?	na
33.	Opposite Drive End Wavy Washer/Sr	nap-Ring Other Retention Device?	na
34.	Opposite Drive End Bearing Conditio	n	contamination
35.	Drive End Seal		na
36.	Opposite Drive End Seal		na
37.	DE Sleeve Bearing Inside ID		
	Measure 1	Measure 2	Measure 3
38.	DE Sleeve Bearing Outside ID		
	Measure 1	Measure 2	Measure 3
39.	DE Sleeve Bearing Inside OD		
	Measure 1	Measure 2	Measure 3
40.	DE Sleeve Bearing Outside OD		
	Measure 1	Measure 2	Measure 3
41.	ODE Sleeve Bearing Inside ID		
	Measure 1	Measure 2	Measure 3

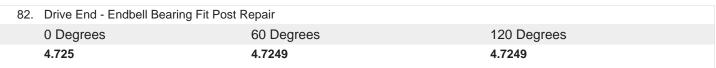
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42.	ODE Sleeve Bearing Outside ID				
	Measure 1	Measure 2	Measure 3		
43.	ODE Sleeve Bearing Outside OD				
	Measure 1	Measure 2	Measure 3		
44.	ODE Sleeve Bearing Inside OD				
	Measure 1	Measure 2	Measure 3		
Dotor	Inquestion				
	Inspection		(Carrieral Alemainera) Carrieral		
	Rotor Type/Material		(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast		
	Growler Test		(Pass) Pass		
47.	Number of Rotor Bars				
48.	Rotor Condition		pass		
49.	List the Parts needed for the Repair B	elow			
	Bearings				
50.	Signature of Technician that Disassen	nbled Motor			
Mech	anical Fits- Rotor				
51.	Shaft Runout				
52.	Rotor Runout				
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing		
53.	Coupling Fit Closest to Bearing Housing	na			
	0 Degrees	90 Degrees	120 Degrees		
	1 - 19.000	30 - 19.000			
54.	Coupling Fit Closest to the end of the	Shaft			
	0 Degrees	60 Degrees	120 Degrees		
55.	Drive End Bearing Shaft Fit				
	0 Degrees	60 Degrees	120 Degrees		
	Page				
- FC	Pass Prive End Rearing Shoft Fit Condition		(D) Doop		
56.	Drive End Bearing Shaft Fit Condition		(P) Pass		
57.	Opposite Drive End Bearing Shaft Fit	CO Degrees	120 Dograda		
	0 Degrees	60 Degrees	120 Degrees		
-	Pass				
58.		Condition	(P) Pass		
59.			(- / - 455		
30.	Drive End Air Seal	Opposite Drive End Air Seal			
	2o Elia / III Oodi	Specific Elita All Ocal			
Mech	anical Fits- Bearing Housings				
60.	Drive End - Endbell Bearing Fit				
	0 Degrees	60 Degrees	120 Degrees		
	-	-	-		
-	Oversized				
61.	Drive End - Endbell Bearing Fit Condition	tion	(F) Fail		

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62	Opposite Drive End - Endbell Bearing	Fit	
02.			120 Dograda
	0 Degrees	60 Degrees	120 Degrees
-	Pitted		
63.	Opposite Drive End - Endbell Bearing	Fit Condition	(F) Fail
64.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
-	Na		
65.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
66.	List Machine Work Needed Below Both end bell bearing fits		
67.	Technician		
	mic Balance Report		
-	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
	reactive grit	Dalarios Grado	
69.	Initial Balance Readings		
	Drive End	Opposite Drive End	
		•	
70.	Final Balance Readings		
	Drive End	Opposite Drive End	
	Technician		
Rewir			
72.	Core Test Results - Watts loss per Po		
	Pre-Burnout	Post Burnout	
73.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
	To Bullout	1 ost Barriout	
74.	Post Rewind Electrical Test- Insulatio	n Resistance	
75.	Post Rewind Polarization Index		
76.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
77.	Post Rewind Surge Test		
78.	Post Rewind Hi-Pot		
79.	Technician		
Root	Cause of Failure		
80.	Failure locations		
81.	81. Root cause of failure		
Mecha	echanical Fits- Bearing Housings - Post Repair		

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83. Opposite Drive End - Endbell Bearing Fit Post Repair

0 Degrees 60 Degrees 120 Degrees

4.7248 4.7247 4.7247



84.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
85.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
86.	DE Sleeve Bearing Inside ID Post Re	pair	
	Measure 1	Measure 2	Measure 3
87.	DE Sleeve Bearing Outside ID Post R	•	
	Measure 1	Measure 2	Measure 3
88.	DE Sleeve Bearing Inside OD Post Re		
	Measure 1	Measure 2	Measure 3
00	DE 01		
89.	DE Sleeve Bearing Outside OD Post	•	
	Measure 1	Measure 2	Measure 3
00	End Dall Danair Cian off		
	End Bell Repair Sign-off	t-	
91.	ODE Sleeve Bearing Inside ID Post R		
	Measure 1	Measure 2	Measure 3
02	ODE Sleeve Bearing Outside ID Post	Donair	
92.	-	•	Mara as 0
	Measure 1	Measure 2	Measure 3
03	ODE Sleeve Bearing Inside OD Post	Renair	
33.	Measure 1	Measure 2	Measure 3
	weasure i	ivieasure Z	ivieasure 3

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94. ODE Sleeve Bearing Outside OD Post Repair Measure 1 Measure 2 Measure 3

Assembly

95. Photograph All Major Components prior to assembly







(Complete) Complete





- 96. Final Insulation Resistance Test
- 97. Assembled Shaft Endplay
- 98. Assembled Shaft Runout
- 99. Test Run Voltage

Volts Volts Volts

100. Test Run Amperage

Amps Amps Amps

101. Drive End Vibration Readings - Inches Per Second

Horizontal Vertical Axial

102. Opposite Drive End Vibration Readings - Inches Per Second

Horizontal Vertical Axial

- 103. Ambient Temperature Fahrenheit
- 104. Drive End Bearing Temps Fahrenheit

5 Minutes 10 Minutes 15 Minutes

105. Drive End Bearing Temps - Fahrenheit 20-30 Minutes

20 Minutes 25 Minutes 30 Minutes

106. Drive End Bearing Temps - Fahrenheit 35-45 Minutes

35 Minutes 40 Minutes 45 Minutes

107. Drive End Bearing Temps - Fahrenheit 50-60 Minutes

50 Minutes 55 Minutes 60 Minutes

108.	108. Opposite Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
109.	109. Opposite Drive End Bearing Temps - Fahrenheit 20-30 Minutes		
	20 Minutes	25 Minutes	30 Minutes
110.	Opposite Drive End Bearing Temps - I		
	35 Minutes	40 Minutes	45 Minutes
444	0	- L . '. 50.00 M'	
111.	Opposite Drive End Bearing Temps - I		
	50 Minutes	55 Minutes	60 Minutes
112. Stator Temperatures- Fahrenheit			
112.	5 Minutes	10 Minutes	15 Minutes
	5 Millutes	10 Millutes	13 Millutes
113.	113. Stator Temperatures- Fahrenheit 20-30 Minutes		
	20 Minutes	25 Minutes	30 Minutes
114.	Stator Temperatures- Fahrenheit 35-4	5 Minutes	
	35 Minutes	40 Minutes	45 Minutes
115.	Stator Temperatures- Fahrenheit 50-6		
	50 Minutes	55 Minutes	60 Minutes
116	Final Test Run Sign-off		
	Document Final Condition with Picture	s after paint	
	Final Pics and QC Review	o anor paint	
110.	I IIIai I ICS aliu QC Neview		

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- 5. <u>DELIVERY OF GOODS AND/OR SERVICES.</u> Unless otherwise identified in the quotation, all shipments are F.O.B. Hi-Speed's warehouse and the title to and all risk of loss with respect to any goods shipped shall pass to Buyer when such goods are delivered to the carrier at Hi-Speed's warehouse. Hi-Speed will use its best efforts to affect delivery by the date or dates specified in the quotation. However, Hi-Speed shall not be liable for delay in or failure to make shipment, or to perform services, by any identified date for any reason whatsoever, including but not limited to, causes beyond its reasonable control, such as strikes, fires, floods, epidemics, quarantines, restrictions, severe weather, embargos, acts of God, or public enemy, war, riot, delays in transportation or the inability to obtain necessary labor, materials or manufacturing facilities.
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- 8. <u>WARRANTIES.</u> Hi-Speed warrants that all goods shall conform in all material aspects to the goods identified in the quotation to Buyer and/or purchase order, and Hi-Speed makes to Buyer the manufacturer's express warranty for any goods sold to Buyer, which is offered by the manufacturer at the time of acceptance of any quotation by Buyer. This warranty is conditioned upon the installation, operation, and maintenance of the goods in accordance with the manufacturer's recommendations and/or standard industry practice and the goods at all times being operated or used under normal operating conditions for which they were designed. Hi-Speed, at its sole option, will repair or

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- 13. FORCE MAJEURE. Neither party shall be responsible for any delay or failure in performance of any party of the quotation, purchase order or these Standard Terms and Conditions to the extent that such delays or failures are caused by fire, flood, earth quake, explosion, war, embargo, government requirement, civil or military authority, acts of God, or any other circumstances beyond its reasonable control and not involving any fault or negligence on the party affected ("Condition"). If any such Condition occurs, the party delayed or unable to perform shall promptly give written notice to the other party and, if such Condition remains at the end of thirty (30) days, the party affected by the other party's delay and inability to perform may elect to (i) terminate such order or part thereof, or (ii) suspend the order for the duration of the Condition, if the Buyer is the suspending party, buy elsewhere comparable material to be sold under the order and apply to any commitment the purchase price of such purchase, and resume performance of the order once the Condition ceases, with an option in the affected party to extend the period of this order up to the length of the time the Condition endures.
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