

# **Motor Shop Repairs**

# **Job Number 98173**

Prepared for Arauco-Malvern MDF (10298)

1275 Willamette Rd Malvern AR 72104

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Printed on 5/6/2021 Powered by INSPECTALL Table of Contents



FolderID: 98173 FormID: 10572705



## **AC Recondition Repair Report**

Arauco-Malvern MDF (10298)

1275 Willamette Rd Malvern, AR 72104

Priorities Found: 4 - High

5 - Good

General			
1. Job Number	98173		
2. Report Date	5/1/2021		
3. Customer	ARAUCO		
Name Plate Information			
4. Manufacturer	SIEMENS		



















5.	Model	1LA04454SD42
6.	Serial Number	7K516623210836
7.	Horsepower	150
8.	KW	
9.	Volts	460
10.	Amps	170
11.	RPM	1780
12.	Frame	445TS
13.	Enclosure	TEFC
14.	Cycles	60

4.5	Di	
	Phase	3
	Service Factor	1.15
17.	Motor Mount Position	
Initial	Inspection	
18.	Number of Leads	6
19.	Lead Length	16 Inches
20.	Lead Size	1
21.	Lead Condition	(P) Pass
22.	Lead Markings	tape numbers 1-3
23.	Lug Size, Condition, and Type	
	3/8 good	
24.	Winding RTD's	(NA) Not Applicable
25.	Winding Rtd's Condition	
26.	Shaft Run Out	
27.	Does Shaft Turn Freely	yes
28.	Does Shaft Have Visible Damage	no
29.	Bearing Rtd's	(NA) Not Applicable
30.	Bearing Rtd's Condition	
31.	Contamination	
32.	Frame Condition	
33.	Fan Condition	(F) Fail
34.	Broken or missing components	
	Fan shattered fan cover bolts broken off in ODE end bell	
Initial	Electric Test	
35.	Resistance to Ground	Mohm



36.	Winding Resistance 1-2
37.	Winding Resistance 2-3
38.	Winding Resistance 1-3
39.	Resistive Imbalance
40.	Hi-Pot
41.	Surge Test
42.	Stator Condition
43.	Failure Location
1 141 1	Batan bannatan

#### **Initial Rotor Inspection**

4	4.	Rotor Type	cast aluminum
4	5.	Air Gap <10% Variation	
4	6.	Number of Rotor Bars	36
4	7.	Number of Broken Rotor Bars	0
• 4	8.	Growler Test	(P) Pass
• 4	9.	Rotor Condition	(P) Pass
Mechanical Inspection			
5	50.	Bearing Manufacture	



51.	Bearing DE Size	6316 2Z
52.	Bearing DE Type	ball
53.	DE Bearing Qty.	1
54.	Bearing ODE Size	6316
55.	Bearing ODE Type	ball
56.	ODE Bearing Qty.	1
57.	Insulated Bearing	
58.	Lubrication Type	polyrex
59.	Grease Condition	(F) Fail
60.	Bearing Retainers	
61.	Shaft Grounding Device	(NA) Not Applicable
62.	DE Seal	(NA) Not Applicable
63.	DE Seal Type/Size	
64.	ODE Seal	(NA) Not Applicable
65.	ODE Seal Type/Size	
Root	Cause of Failure	
66.	Component Failure	end bell fits
67.	Cause of Failure	
	Moisture	
68.	Comments	
	Sleeve Both end bells, 2x 63162Z, extract broken bolts for fan cover, replace fan (Aluminum 2	.55"/64mm shaft size)
69.	Service Technician	David Maclin

	Machine Fit Inspection Report			
	70.	Shaft Run Out		
	71.	Initial Shaft Run Out		
	72.	Final Shaft Run Out		
	73.	DE Bearing Shaft Fit	(P) Pass	
	74.	DE Initial Shaft Bearing Fit Size 1	3.1499 "	
	75.	DE Initial Shaft Bearing Fit Size 2	3.1497 "	
	76.	DE Initial Shaft Bearing Fit Size 3	3.1499 "	
	77.	DE Finial Shaft Bearing Fit Size 1		
	78.	DE Finial Shaft Bearing Fit Size 2		
	79.	DE Finial Shaft Bearing Fit Size 3		
	80.	ODE Bearing Shaft Fit	(P) Pass	
	81.	ODE Initial Shaft Bearing Fit Size 1	3.1499 "	
	82.	ODE Initial Shaft Bearing Fit Size 2	3.15 "	
	83.	ODE Initial Shaft Bearing Fit Size 3	3.1501 "	
	84.	ODE Finial Shaft Bearing Fit Size 1		
	85.	ODE Finial Shaft Bearing Fit Size 2		
	86.	ODE Finial Shaft Bearing Fit Size 3		
	87.	DE Air Seal Shaft Fit		
	88.	DE Initial Air Seal Shaft Size		
	89.	DE Final Air Seal Shaft Size		
	90.	ODE Air Seal Shaft Fit		
	91.	ODE Initial Air Seal Shaft Size		
	92.	ODE Final Air Seal Shaft Size		
	93.	DE Endbell Fit	(F) Fail	
	0.4			
	94.	DE Initial Endbell Fit Size 1		
		DE Initial Endbell Fit Size 1 DE Initial Endbell Fit Size 2		
	95.			
	95. 96.	DE Initial Endbell Fit Size 2		
	95. 96. 97.	DE Initial Endbell Fit Size 2 DE Initial Endbell Fit Size 3		
	95. 96. 97. 98.	DE Initial Endbell Fit Size 2 DE Initial Endbell Fit Size 3 DE Final Endbell Fit Size 1		
	95. 96. 97. 98. 99.	DE Initial Endbell Fit Size 2  DE Initial Endbell Fit Size 3  DE Final Endbell Fit Size 1  DE Finial Endbell Fit Size 2		
	95. 96. 97. 98. 99.	DE Initial Endbell Fit Size 2 DE Initial Endbell Fit Size 3 DE Final Endbell Fit Size 1 DE Finial Endbell Fit Size 2 DE Final Endbell Fit Size 3		
	95. 96. 97. 98. 99. 100.	DE Initial Endbell Fit Size 2 DE Initial Endbell Fit Size 3 DE Final Endbell Fit Size 1 DE Finial Endbell Fit Size 2 DE Final Endbell Fit Size 3 DE Endbell Fit Insulated		
	95. 96. 97. 98. 99. 100. 101.	DE Initial Endbell Fit Size 2 DE Initial Endbell Fit Size 3 DE Final Endbell Fit Size 1 DE Finial Endbell Fit Size 2 DE Final Endbell Fit Size 3 DE Endbell Fit Insulated DE Endbell Air Seal Fit		
	95. 96. 97. 98. 99. 100. 101. 102.	DE Initial Endbell Fit Size 2  DE Initial Endbell Fit Size 3  DE Final Endbell Fit Size 1  DE Finial Endbell Fit Size 2  DE Final Endbell Fit Size 3  DE Endbell Fit Insulated  DE Endbell Air Seal Fit  Initial Endbell Air Seal Fit Size	(F) Fail	
•	95. 96. 97. 98. 99. 100. 101. 102. 103. 104.	DE Initial Endbell Fit Size 2  DE Initial Endbell Fit Size 3  DE Final Endbell Fit Size 1  DE Finial Endbell Fit Size 2  DE Final Endbell Fit Size 3  DE Endbell Fit Insulated  DE Endbell Air Seal Fit  Initial Endbell Air Seal Fit Size  Finial Endbell Air Seal Fit Size	(F) Fail	
•	95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105.	DE Initial Endbell Fit Size 2  DE Initial Endbell Fit Size 3  DE Final Endbell Fit Size 1  DE Finial Endbell Fit Size 2  DE Final Endbell Fit Size 3  DE Endbell Fit Insulated  DE Endbell Air Seal Fit  Initial Endbell Air Seal Fit Size  Finial Endbell Air Seal Fit Size  ODE Endbell Fit	(F) Fail	
	95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106.	DE Initial Endbell Fit Size 2  DE Initial Endbell Fit Size 3  DE Final Endbell Fit Size 1  DE Finial Endbell Fit Size 2  DE Final Endbell Fit Size 3  DE Endbell Fit Insulated  DE Endbell Air Seal Fit  Initial Endbell Air Seal Fit Size  Finial Endbell Air Seal Fit Size  ODE Endbell Fit Size 1	(F) Fail	
	95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106.	DE Initial Endbell Fit Size 2  DE Initial Endbell Fit Size 3  DE Final Endbell Fit Size 1  DE Finial Endbell Fit Size 2  DE Final Endbell Fit Size 3  DE Endbell Fit Insulated  DE Endbell Air Seal Fit  Initial Endbell Air Seal Fit Size  Finial Endbell Air Seal Fit Size  ODE Endbell Fit ODE Initial Endbell Fit Size 1  ODE Initial Endbell Fit Size 2	(F) Fail	
	95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107.	DE Initial Endbell Fit Size 2  DE Initial Endbell Fit Size 3  DE Final Endbell Fit Size 1  DE Finial Endbell Fit Size 2  DE Finial Endbell Fit Size 3  DE Endbell Fit Insulated  DE Endbell Air Seal Fit  Initial Endbell Air Seal Fit Size  Finial Endbell Air Seal Fit Size  ODE Endbell Fit  ODE Initial Endbell Fit Size 1  ODE Initial Endbell Fit Size 2  ODE Initial Endbell Fit Size 3	(F) Fail	
	95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109.	DE Initial Endbell Fit Size 2  DE Initial Endbell Fit Size 3  DE Final Endbell Fit Size 1  DE Finial Endbell Fit Size 2  DE Final Endbell Fit Size 3  DE Endbell Fit Insulated  DE Endbell Air Seal Fit  Initial Endbell Air Seal Fit Size  Finial Endbell Air Seal Fit Size  ODE Endbell Fit  ODE Initial Endbell Fit Size 1  ODE Initial Endbell Fit Size 2  ODE Initial Endbell Fit Size 3  ODE Initial Endbell Fit Size 3  ODE Initial Endbell Fit Size 3  ODE Final Endbell Fit Size 1	(F) Fail	
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110			
	Foot Condition		
	Flange Condition		
	Service Technician		
	Balancing Report		
	Balance Type		
	Balance Operating Speed		
	Start Left End		
	Start Right End		
	Balancing Specification		
	Finish Left End		
	Finish Right End		
	Service Technician		
	nbly and Final Test		
127.	Meggar Testing Reading		
128.	Surge Test		
	Hi-Pot		
	Winding Resistance 1-2		
	Winding Resistance 2-3		
	Winding Resistance 1-3		
	Test Run Voltage Phase A		
	Test Run Amps A		
	Test Run Voltage Phase B		
	Test Run Amps B		
	Test Run Voltage Phase C		
	Test Run Amps C		
	DE Horizontal Vibration Reading		
	DE Vertical Vibration Reading		
	DE Axial Vibration Reading		
	ODE Horizontal Vibration Reading		
	ODE Vertical Vibration Reading		
	ODE Axial Vibration Reading		
	Ambient Temp at start of Test Run		
	Temp at 5 minutes		
	Temp at 10 minutes		
	Temp at 15 minutes		
	Temp at 20 minutes		
	Temp at 25 minutes		
	Temp at 30 minutes		
	Temp at 40 minutes		
	Temp at 40 minutes		
	Temp at 45 minutes		
	Temp at 50 minutes		
	Temp at 55 minutes		
	Temp at 60 minutes		
	Motor Paint		
159.	Service Technician		



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- 8. WARRANTIES. 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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- 9. <u>LIMITATION OF DAMAGES.</u> HI-SPEED SHALL HAVE NO LIABILITY TO BUYER WITH RESPECT TO THE SALE OR DELIVERY OF ANY GOODS OR THE REPAIR THEREOF OR WITH RESPECT TO THE SALE OR PERFORMANCE OF ANY SERVICES, FOR LOST PROFITS, SPECIAL, CONSEQUENTIAL, EXEMPLARY, PUNITIVE OR INCIDENTAL DAMAGES OF ANY KIND OR NATURE WHETHER ARISING IN CONTRACT, TORT, GOODS LIABILITY OR OTHERWISE, EVEN IF HI-SPEED WAS ADVISED OF THE POSSIBILITY OF SUCH LOSS OR DAMAGES. HI-SPEED SHALL NOT BE LIABLE FOR ANY DAMAGES OR DELAYS CAUSED BY ANY FAILURE TO MAKE ANY DELIVERY OF GOODS BY ANY EXPECTED TIME OR DATE OR THE FAILURE TO PROVIDE OR COMPLETE ANY SERVICES BY ANY EXPECTED DATE OR TIME. IN NO EVENT SHALL HI-SPEED BE LIABLE TO BUYER FOR ANY DAMAGES WHATSOEVER IN EXCESS OF THE TOTAL PRICE PAID FOR ALL GOODS AND/OR SERVICES HEREUNDER OR REFERENCED IN ANY QUOTATION OR THE PURCHASE ORDER.
- 10. <u>SEVERABILITY.</u> The partial or complete invalidity of any provision of these Standard Terms and Conditions shall not affect the enforceability of the remainder of these Standard Terms and Conditions. If any provision is found to be invalid or unenforceable, that portion shall be modified to make it enforceable or shall be stricken and the remainder of these Standard Terms and Conditions shall enforced.
- 11. **GOVERNING LAW AND JURISDICTION.** Any controversy arising out of any quotation, the purchase order, the goods sold or delivered, repair or replacement thereof, or any services provided pursuant to any quotation or any purchase order, or these Standard Terms and Conditions shall be governed by the laws of the state of Tennessee without regard to any choice of law provisions and any cause of action related in any manner thereto shall be brought only in the state or federal courts of Shelby County, Tennessee.
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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.
- 14. <u>NONWAIVER.</u> No course of dealing or failure of either party to strictly enforce any term, right, or condition of these Standard Terms and Conditions will be construed as a waiver of such term, right or condition. Any waiver by Hi-Speed will only be in writing and will waive no succeeding breach of a term, right or condition.
- 15. **ASSIGNMENT.** The rights and obligations of the parties shall neither be assigned nor delegated without the prior written consent of the other party. However, any party may assign or delegate its respective rights and obligations, in whole or in part, (i) to any subsidiary, (ii) pursuant to other financing, merger or reorganization or (iii) pursuant to any sale or transfer of substantially all of the assets of the assigning party. These Standard Terms and Conditions shall bind the heirs, successors and assigns of the parties hereto.
- 16. NO INDIVIDUAL LIABILITY. Notwithstanding any other agreement to the contrary, the Buyer agrees that in no event will the Buyer hold and HI-Speed owner, director, officer or employee personally liable for unintentional tortious conduct or conduct that constitutes the breach of any contract between HI-Speed and the Buyer, even if the HI-Speed owner, director, officer or employee is or could be construed to be a party to such contract.