



KEEPING YOUR FACILITY UP TO SPEED
— EVERY DAY SINCE 1946 —

LR Motor Shop Repairs

Job Number 103288

Prepared for B & T Pallet Inc (12755)

14314 Lawrence Rd
Little Rock AR 72206

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AC Inspection as Found - *LR Motor Shop*

AC Inspection - Rev. 2: 7006

1.0

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Printed on 7/31/2024

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Hi-Speed Industrial Service
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AC Inspection as Found

B & T Pallet Inc (12755)

14314 Lawrence Rd
Little Rock, AR 72206

FolderID: 103288
FormID: 21154393

AC Inspection - Rev. 2

Location: LR Motor Shop

Serial Number: 7006

Description: 25HP WESTINGHOUSE EVAL

Hi-Speed Job Number: 103288

Manufacturer: TECO Westinghouse

Product Number: TBDP

Serial Number: 7006

HP/kW: 25 (HP)

RPM: 1765 (RPM)

Frame: 284T

Voltage: 230 / 460

Current: 65/32.5

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.15

of Leads: 3

J-box Included: Complete

Coupling/Sheave: Sheave

Date Received: 07/30/2024

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Final

Rewind: No

Shaft Machined Fit Repairs
Required: No

Bearing Housing Machined
Fit Repairs Required: Yes

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found: ● 1 - High ● 7 - Good

Overall Condition

1. Report Date

07/31/2024

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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 but serviceable

5. Distance from the end of the shaft to the Coupling/Sheave

0 inches

Flush



Initial Mechanical/Electrical

6.	Does Shaft Turn Freely?	(Y) Yes
7.	Does the shaft require T.I.R in Lathe to identify additional repairs?	
8.	Does Shaft Have Visible Damage?	(No) No
9.	Assembled Shaft Runout	
10.	Assembled Shaft End Play	inches
11.	Air Gap Variation <10%	
12.	Lead Condition	(P) Pass



13.	Lead Length	8 Inches
14.	Does it have Lugs?, If so what is the Stud Size?	(No) No
15.	Lead Numbers	
	Na	
16.	Frame Condition	pass
17.	Fan Condition	(N) NA
18.	Broken or Missing Components	none

Initial Electrical Inspection

19.	Insulation Resistance/Megger			390 Megohms
20.	Winding Resistance			
	1-2	1-3	2-3	
	1.141	1.141	1.141	

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21. Perform Surge Test

(P) Pass



22. Number of Stator Slots	48
23. Stator Condition	wash and bake recommend redip
Winding dirty	



24. Stator Thermistors/Ohms	
25. Stator Overloads/Ohms	
Mechanical Inspection	
26. Drive End Bearing Brand	SKF
27. Drive End Bearing Number-	6311ZZ



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



34. Opposite Drive End Bearing Brand	SKF
35. Opposite Drive End Bearing Number-	6209ZZ



36. Opposite Drive End Bearing Qty.	1
37. Opposite Drive End Bearing Type	(Ball) Ball Bearing
38. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
39. Opposite Drive End Bearing Insulation or Grounding Device?	NA
40. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	Wavy washer
41. Opposite Drive End Bearing Condition	contamination



42. Drive End Seal	Na
43. Opposite Drive End Seal	Na
Rotor Inspection	
44. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast



45. Growler Test	(Pass) Pass
46. Number of Rotor Bars	38
47. Rotor Condition	dirty
48. List the Parts needed for the Repair Below 6311ZZ 6209ZZ BEARING	
49. Signature of Technician that Disassembled Motor	RW

Mechanical Fits- Rotor


50. Shaft Runout	0.0003 inches	
51. Rotor Runout		
Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing

52. Coupling Fit Closest to Bearing Housing			
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	
2.1658	2.1658	2.1658	
55. Drive End Bearing Shaft Fit Condition	(P) Pass		



56. Opposite Drive End Bearing Shaft Fit			
0 Degrees	60 Degrees	120 Degrees	
1.772	1.772	1.772	
57. Opposite Drive End Bearing Shaft Fit Condition	(P) Pass		

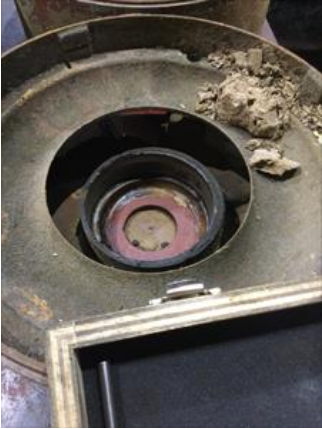


58. Shaft Air Seal Fits		
Drive End Air Seal		Opposite Drive End Air Seal
	Na	

Mechanical Fits- Bearing Housings

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59. Drive End - Endbell Bearing Fit			
0 Degrees	60 Degrees	120 Degrees	
4.7265	4.7265	4.7265	



60. Drive End - Endbell Bearing Fit Condition			(F) Fail
Resleeve			
61. Opposite Drive End - Endbell Bearing Fit			
0 Degrees	60 Degrees	120 Degrees	
3.3472	3.3472	3.3472	
62. Opposite Drive End - Endbell Bearing Fit Condition			(P) Pass
63. Bearing Cap Condition			
Drive End Bearing Cap		Opposite Drive End Bearing Cap	
Na			
64. End Bell Air Seal Fits			
Drive End Air Seal		Opposite Drive End Air Seal	
Na			
65. List Machine Work Needed Below			
None			
66. Technician			RW
			
Co witness CRW			
Root Cause of Failure			
67. Failure locations			
Bearings			
68. Root cause of failure			
Grease contamination De had water in bearing housing			
Dynamic Balance Report			
69. Rotor Weight and Balance Grade			
Rotor Weight		Balance Grade	

70. Initial Balance Readings			
Drive End	Opposite Drive End		
71. Final Balance Readings			
Drive End	Opposite Drive End		
72. Technician			
Mechanical Fits- Bearing Housings - Post Repair			
73. Drive End - Endbell Bearing Fit Post Repair			
0 Degrees	60 Degrees	120 Degrees	
74. Opposite Drive End - Endbell Bearing Fit Post Repair			
0 Degrees	60 Degrees	120 Degrees	
75. Bearing Cap Condition Post Repair			
Drive End Bearing Cap	Opposite Drive End Bearing Cap		
76. End Bell Air Seal Fits Post Repair			
Drive End Air Seal	Opposite Drive End Air Seal		
77. End Bell Repair Sign-off			
Assembly			
78. QC Check All Parts for Cleanliness Prior to Assembly			
79. Photograph All Major Components prior to assembly			
80. Final Insulation Resistance Test			
81. Assembled Shaft Endplay			
82. Assembled Shaft Runout			
83. Test Run Voltage			
Volts	Volts	Volts	
84. Test Run Amperage			
Amps	Amps	Amps	
85. Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical	Axial	
86. Opposite Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical	Axial	
87. Ambient Temperature - Fahrenheit			
88. Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
89. Opposite Drive End Bearing Temps - Fahrenheit			
5 Minutes	10 Minutes	15 Minutes	
90. Document Final Condition with Pictures after paint			
91. Final Pics and QC Review			

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3. **SCOPE OF GOODS AND/OR SERVICES.** The goods and/or services provided by Hi-Speed pursuant to any quotation shall be limited exclusively to those goods and/or services expressly identified therein. Hi-Speed does not assume any responsibility and/or liability for the failure to provide any other goods and/or services not identified in any quotation. Modifications, additions or deletions to or from the scope referenced in any quotation shall only be effective if evidenced in writing and signed by Hi-Speed. The sale of any of all goods and/or services affected by such modification, addition or deletion shall be subject to these same Standard Terms and Conditions whether or not referenced therein.
4. **BILLING AND PAYMENT TERMS.** Hi-Speed shall invoice Buyer for all goods and/or services as same are rendered at the address listed on the quotation. Payments for all goods and/or services shall be due thirty (30) days from the date of the current invoice or as otherwise set forth in the quotation. Late payments are subject to a late fee of 5% of the total invoice amount. Recurring late payments may lead to a deposit requirement on future services or sale of goods. Buyer shall be liable to Hi-Speed for any and all fees and expenses incurred by Hi-Speed to collect any invoices or to enforce these Standard Terms and Conditions, including but not limited to, attorney's fees.
5. **DELIVERY OF GOODS AND/OR SERVICES.** 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.
6. **DELIVERY SITE AND TIME FOR PERFORMANCE.** Hi-Speed and Buyer agree that time is of the essence for the purchase order and that Buyer shall fully cooperate with Hi-Speed in order to allow Hi-Speed full access to prosecute its work diligently and in an orderly manner. Buyer shall assist Hi-Speed in every way possible to avoid delaying, disrupting or interfering with the progress of Hi-Speed's work at the project site. In the event Hi-Speed's work is delayed, hindered, suspended, disrupted, re-sequenced or interfered with or rendered less efficient or more costly or adversely affected in any way as a result of acts or omissions of Buyer or other contractors or employees of Buyer or by any other reason beyond Hi-Speed's control and without the fault of Hi-Speed, then, in such event, Buyer shall be liable to Hi-Speed for any damages, additional costs, expenses, labor, materials, man hours, acceleration costs, overtime, additional jobsite overhead, extended home office overhead, and any and all other direct and indirect expenses of whatsoever nature or kind, caused in whole or in part, as a result of any of the above-referenced occurrences. Hi-Speed's project records will be the basis for computing the additional costs and damages of Hi-Speed's labor, materials, expenses and overhead related to such changes. BUYER WARRANTS THAT THE SITE FOR DELIVERY OR INSTALLATION OF ANY GOODS AND/OR FOR THE PERFORMANCE OF ANY SERVICES SHALL BE READY AND ADEQUATE FOR HI-SPEED'S DELIVERY OF GOODS AND/OR PERFORMANCE OF SERVICES AND THAT HI-SPEED SHALL HAVE FULL ACCESS THERETO, FREE OF ALL OBSTRUCTIONS. BUYER SHALL ASSUME ALL EXTRA COSTS ASSOCIATED WITH HI-SPEED'S INABILITY TO INSTALL ANY GOODS OR PERFORM ANY SERVICES AS A RESULT OF BUYER'S FAILURE TO COMPLY WITH THIS PROVISION. HI-SPEED MAY NOT INSPECT THE SITE PRIOR TO DELIVERY AND/OR INSTALLATION OF GOODS AND/OR PERFORMANCE OF SERVICES AND MAKES NO WARRANTY AS TO THE SUFFICIENCY OF THE SITE FOR THE DELIVERY AND/OR INSTALLATION OF GOODS AND/OR THE PERFORMANCE OF SERVICES AT SUCH SITE.
7. **INSPECTION/ACCEPTANCE.** All goods and services ordered pursuant to any quotation shall be subject to inspection by Buyer after delivery or performance to determine conformity with the quotation and/or purchase order and Hi-Speed's advertised or published specifications. Buyer shall have a period of thirty (30) days from shipment of goods at the delivery destination specified in the quotation within which to inspect the goods for conformity with the quotation, order and/or Hi-Speed's advertised and published specifications and to provide Hi-Speed with written notice of any discrepancy or rejection. Buyer shall have a period of thirty (30) days following completion of any services within which to inspect the services for conformity with the quotation, purchase order and/or Hi-Speed's advertised and published specifications and to provide Hi-Speed with written notice of any discrepancy or rejection. If the goods delivered or services performed do not so conform, upon delivery of notice to Hi-Speed of any discrepancy, nonconformance or rejection, Hi-Speed shall have sixty (60) days to cure the alleged discrepancy and/or nonconformance. If Hi-Speed fails to cure in this time period, Buyer shall have the right to reject such goods or services. After the cure period, goods that have been delivered and rejected, in whole or in part, shall be returned to Hi-Speed. Buyer shall notify Hi-Speed and arrange for the return of the goods as required. Should such non-conforming services be rejected Hi-Speed shall, at its sole cost, re-perform the non-conforming services. Inspection or failure to inspect on any occasion shall not affect Buyer's rights under the warranty provisions herein.
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

replace any defective or non-conforming goods in accordance with the applicable manufacturer's warranty. Warranty for any defective or incorrect parts is limited to the repair or replacement of those parts. Hi-Speed warrants that all services will conform in all material respects to the description of services identified in the quotation and will be performed in a good and workmanlike manner in accordance with industry practices and standards. Should the services be reasonably rejected or not conform with the foregoing warranties, Hi-Speed shall, at its sole cost, re-perform the defective or nonconforming services. Notwithstanding the foregoing, these warranties do not extend to goods or services to the extent that such goods have been subject to misuse, neglect or abuse not caused by Hi-Speed or have been used in violation of the approved written instructions furnished to Buyer. THE FOREGOING REPRESENTS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY HI-SPEED WITH RESPECT TO ALL GOODS SOLD AND IS IN LIEU OF ALL OTHER WARRANTIES EITHER EXPRESS OR IMPLIED. HI-SPEED EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE OR PURPOSE. BUYER WAIVES ANY CLAIM THAT THESE EXCLUSIONS OR LIMITATIONS DEPRIVE IT OF AN ADEQUATE REMEDY AT EQUITY OR LAW OR CAUSE THIS AGREEMENT TO FAIL IN ITS ESSENTIAL PURPOSE. BUYER SHALL BE ENTITLED TO NO OTHER REMEDY OTHER THAN AS SET FORTH HEREIN, REGARDLESS OF THE CLAIM OR CAUSE OF ACTION, WHETHER BASED IN CONTRACT, TORT, NEGLIGENCE, GOODS LIABILITY, STRICT LIABILITY OR OTHERWISE.

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10. **SEVERABILITY.** 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, earthquake, 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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