



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

LR Motor Shop Repairs

Job Number 103736

Prepared for PPG (11114)

11605 VIMY RIDGE ROAD
ALEXANDER AR 72002

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AC Inspection as Found - *LITTLE ROCK MOTOR
SHOP*

AC Inspection - Rev. 2: *CAT: U15E2DCR*

1.0

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AC Inspection as Found

PPG (11114)

11605 VIMY RIDGE ROAD
ALEXANDER, AR 72002

FolderID: 103736
FormID: 22309382

AC Inspection - Rev. 2

Location: LITTLE ROCK MOTOR SHOP

Serial Number: CAT: U15E2DCR

Description: 15HP NIDEC W/ PUMP

Hi-Speed Job Number: 103736

Manufacturer: US Motors/Nidec

Product Number: M: R578

Serial Number: CAT: U15E2DCR

HP/kW: 15 (HP)

RPM: 1775 (RPM)

Frame: 254TCZ

Voltage: 208-230/460

Current: 40-18.5 (Amps)

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.25

Enclosure: TEFC

of Leads: 12

J-box Included: None

Coupling/Sheave: Coupling

Date Received: 11/19/2024

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: 3 - High 1 - Low 15 - Good

Overall Condition

1. Report Date

11/19/2024

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4. Describe the Overall Condition of the Equipment as Received

Dirty

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

inches



*Motor side: flush
Pump side: 0.229in*



Pump

Initial 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	Inches
10. Assembled Shaft End Play	inches
11. Air Gap Variation <10%	
12. Lead Condition	(P) Pass
13. Lead Length	18 Inches
14. Does it have Lugs?, If so what is the Stud Size?	(No) No
15. Lead Numbers	1-12
16. Frame Condition	
17. Fan Condition	(P) Pass
18. Broken or Missing Components	



J-box missing

Initial Electrical Inspection

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19. Insulation Resistance/Megger

Megohms

Coil 2 (Ohms)		1.073 Corr: 1.0
Coil 3 (Ohms)		1.075 Corr: 1.0
Megohm Stat...	No Test	PASS
Volts (V)		501
I(μA)		0.2088
Resist		2399
At 40°C		647
DI Status	Min Test	Min Test
Nameplate	Application	Results Summary

20. Winding Resistance

1-2

1-3

2-3

Status	No Test	PASS
L1 (Ohms)		
L2 (Ohms)		
L3 (Ohms)		
L2 (Ohms)		0.718 Corr: 0.7...
L3 (Ohms)		0.717 Corr: 0.7...
L1 (Ohms)		0.717 Corr: 0.7...
Max Delta R %		0.231
Coil 1 (Ohms)		1.078 Corr: 1.0...
Coil 2 (Ohms)		1.073 Corr: 1.0...
Coil 3 (Ohms)		1.075 Corr: 1.0...
Megohm Stat...	No Test	PASS
Volts (V)		501
Nameplate	Application	Results Summary

21. Perform Surge Test

(P) Pass

Tests	Trending
ID: 400V w/RTD 1014P Step	Edit Test ID Enable Calibration
For: 400V 100	Max
Temperature/Resistance Tests	Manual
OFF	Temperature
OFF	Resistance
DC Test	500V
OFF	500V
OFF	100V
OFF	100V
Surge Test	100V
Surge	100V

22. Number of Stator Slots

48

23. Stator Condition

signs of moisture

24. Stator Thermistors/Ohms

25. Stator Overloads/Ohms

Mechanical Inspection

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26. Drive End Bearing Brand

NACHI



Upper guide pump bearing
3.5476

27. Drive End Bearing Number-

6309-2RS



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?

32. Drive End Wavy Washer/Snap-Ring Other Retention Device?

snap ring

33. Drive End Bearing Condition

Wear



34. Opposite Drive End Bearing Brand	NACHI
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Lower guid bearing
1.5038

35. Opposite Drive End Bearing Number-	6207-2RS
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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?	
40. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer

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42. Drive End Seal

43. Opposite Drive End Seal

Rotor Inspection

44. Rotor Type/Material (Squirrel Aluminum) Squirrel Cage Aluminum Die Cast

45. Growler Test (Pass) Pass

46. Number of Rotor Bars 40

47. Rotor Condition pass needs cleaned

48. List the Parts needed for the Repair Below

6309-2RS

6207-2RS

Need J-box and cover

49. Signature of Technician that Disassembled Motor Cw

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 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

1.772

1.7722

1.7722

55. Drive End Bearing Shaft Fit Condition (P) Pass

56. Opposite Drive End Bearing Shaft Fit

0 Degrees

60 Degrees


120 Degrees

1.3776

1.3777

1.3777

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57.	Opposite Drive End Bearing Shaft Fit Condition			(P) Pass
58.	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
Mechanical Fits- Bearing Housings				
59.	Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	3.9375	3.937	3.9371	
60.	Drive End - Endbell Bearing Fit Condition			(P) Pass
61.	Opposite Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	2.8372	2.8369	2.837	
62.	Opposite Drive End - Endbell Bearing Fit Condition			(F) Fail
63.	Bearing Cap Condition			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
64.	End Bell Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
65.	List Machine Work Needed Below <i>ODE end bell bearing fit</i> <i>Upper bearing guide for pump</i>			
66.	Technician			Cw
				
Co sign: RRW				
Root Cause of Failure				
67.	Failure locations <i>Bearings and ODE end bell bearing fit</i>			
68.	Root cause of failure <i>Wear</i>			
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	

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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			



STANDARD TERMS AND CONDITIONS FOR PURCHASE OF GOOD AND/OR SERVICES

1. **APPLICABILITY.** The sale of any and all goods and/or services by Mock, Inc. d/b/a Hi-Speed Industrial Service ("Hi-Speed") shall be specifically conditioned upon and subject to the following terms and conditions which are incorporated by reference into any contracts and purchase orders with Hi-Speed, and which shall form and become a part of any agreement related thereto. Buyer's acceptance of any offer or quotation made by Hi-Speed for sale of any goods or services is expressly made subject to the terms and conditions set forth herein and to be so effective, Buyer need not sign or approve these Terms and Conditions to be bound hereunder provided a copy of same is provided to Buyer through any means. None of the terms and conditions contained herein may be added to, expanded, changed, modified, superseded or otherwise altered except as revised in writing and duly executed by Hi-Speed, and all orders received by Hi-Speed shall be governed only by the terms and conditions contained herein, notwithstanding any terms, conditions or provisions of any purchase order, release order, authorization or any other form issued by the Buyer. Hi-Speed hereby objects to any additional, modified, changed, deleted, altered or other terms and conditions not contained herein and notifies Buyer that any such terms or provisions are expressly rejected by Hi-Speed.
2. **PRICE.** All quoted prices shall remain firm and binding for a period of thirty (30) days from the date of quotation or for the period specifically stated in the quotation. The price for any and all goods and/or services ordered or approved by Buyer after thirty (30) days from the date of any quotation are subject to any increase in price that may occur after the expiration of thirty (30) days from the issuance of the quotation and the date the Buyer releases any shipment.
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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

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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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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.
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