

# LR Motor Shop Repairs

**Job Number 102382** 

Prepared for CONWAY COUNTY WATER

30 H2O DRIVE PLUMMERVILLE AR 72127

# **Table of Contents**

AC Inspection as Found - MOTOR SHOP LR

AC Inspection - Rev. 2

1.0



MOTOR SHOP LR

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

> FolderID: 102382 FormID: 19126641

# **AC Inspection as Found CONWAY COUNTY WATER**

**30 H2O DRIVE** PLUMMERVILLE, AR 72127

AC Inspection - Rev. 2

Serial Number:

Location:

Hi-Speed Job Number:	102382
Manufacturer:	US Motors/Nidec
Product Number:	CAT# HO350V2SLH-C
Spec/ID #:	Z010828327-0001-GT-0
HP/kW:	350 (HP)
RPM:	1785 (RPM)
Frame:	447TPA
Voltage:	460
Current:	389
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	WPI
Date Received:	01/24/2024
Repair Stage:	Final
Rewind:	Yes
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 1 - High

10 - Good

#### **Overall Condition**

1. Report Date 03/13/2024

# Nameplate Picture





3. Photos of all six sides of the machine.











	4.	Describe the Overall Condition of the	Equipment as Received		
		Serviceable			
	5.	Distance from the end of the shaft to t	he Coupling/Sheave	iı	nches
•	-	Na			
Init	tial	Mechanical/Electrical			
	6.	Does Shaft Turn Freely?		(Yes	s) Yes
	7.	Does Shaft Have Visible Damage?		(N	lo) No
	8.	Assembled Shaft Runout		lı	nches
4		Na			
	9.	Assembled Shaft End Play		iı	nches
4		Na			
1	10.	Air Gap Variation <10%			
4		Na			
• 1	11.	Lead Condition		(P)	Pass
	12.	Lead Length		27 lı	nches
	13.	Lead Numbers			1-12
_ ′	14.	Stator Temperature Detector Rating a	nd Function		
		Quantity	Rating	Quantity Passed	
		1	0.2	1	
_	15.				
				(N	lo) No
	16.	Does the shaft require T.I.R in Lathe t Bearing Temperature Detector Rating		(N	o) No
	16.	·		Quantity Passed	lo) No
,	16.	Bearing Temperature Detector Rating	and Function		o) No
	•	Bearing Temperature Detector Rating Quantity	and Function		o) No
•	17.	Bearing Temperature Detector Rating Quantity Na	and Function	Quantity Passed	o) No N) NA
	17.	Bearing Temperature Detector Rating Quantity  Na Frame Condition	and Function	Quantity Passed	
	17. 18.	Bearing Temperature Detector Rating Quantity  Na  Frame Condition Fan Condition	and Function	Quantity Passed	
	17. 18. 19.	Bearing Temperature Detector Rating Quantity  Na Frame Condition Fan Condition Broken or Missing Components	and Function Rating	Quantity Passed	
	17. 18. 19.	Bearing Temperature Detector Rating Quantity  Na Frame Condition Fan Condition Broken or Missing Components Na	and Function Rating	Quantity Passed	N) NA
• 2 Init	17. 18. 19. 20. <b>tial</b>	Bearing Temperature Detector Rating Quantity  Na Frame Condition Fan Condition Broken or Missing Components Na Does it have Lugs?, If so what is the S	and Function Rating	Quantity Passed	N) NA s) Yes
• 2 Init	17. 18. 19. 20. <b>tial</b> 21.	Bearing Temperature Detector Rating Quantity  Na Frame Condition Fan Condition Broken or Missing Components Na Does it have Lugs?, If so what is the S Electrical Inspection	and Function Rating	Quantity Passed ((Yes	N) NA s) Yes
lnit	17. 18. 19. 20. <b>tial</b> 21.	Bearing Temperature Detector Rating Quantity  Na Frame Condition Fan Condition Broken or Missing Components Na Does it have Lugs?, If so what is the S Electrical Inspection Insulation Resistance/Megger	and Function Rating	Quantity Passed ((Yes	N) NA s) Yes
lnit	17. 18. 19. 20. <b>tial</b> 21.	Bearing Temperature Detector Rating Quantity  Na Frame Condition Fan Condition Broken or Missing Components Na Does it have Lugs?, If so what is the S Electrical Inspection Insulation Resistance/Megger Winding Resistance	and Function Rating Stud Size?	Quantity Passed  (Yes	N) NA s) Yes

23. Perform Surge Test

(NA) Not Applicable

72

7322-B-XL-MP-UA



24. Number of Stator Slots

25. Stator Condition rewind



26. Stator Thermistors/Ohms

**₽** Ná

27. Stator Overloads/Ohms 0.1

# **Mechanical Inspection**

28. Drive End Bearing Brand FAG

29. Drive End Bearing Number-





30. Drive End Bearing Qty.	1
31. Drive End Bearing Type	(Thrust) Thrust
32. Drive End Lubrication Type	(Oil) Oil Lubricated
33. Drive End Bearing Insulation or Grounding Device?	none
34. Drive End Wavy Washer/Snap-Ring Other Retention Device?	one
35. Drive End Bearing Condition	replace
36. Opposite Drive End Bearing Brand	nachi



37. Opposite Drive End Bearing Number-







1	38. Opposite Drive End Bearing Qty.
(Ball) Ball Bearing	39. Opposite Drive End Bearing Type
(Grease) Grease Lubricated	40. Opposite Drive End Lubrication Type
ng Device? aegis ring	41. Opposite Drive End Bearing Insulation or Grounding Devi
ner Retention Device? snap ring and spacer	42. Opposite Drive End Wavy Washer/Snap-Ring Other Rete
replace	43. Opposite Drive End Bearing Condition





44. Drive End Seal

45. Opposite Drive End Seal dust seal



# **Rotor Inspection**

46. Rotor Type/Material

(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast

47. Growler Test (Pass) Pass

48. Number of Rotor Bars







49. Rotor Condition pass

50. List the Parts needed for the Repair Below Replace Bearings and rewind stator.

51. Signature of Technician that Disassembled Motor

**Terrence Holland** 

**Mechanical Fits- Rotor** 

52. Shaft Runout
0.003 inches

53. Rotor Runout

Drive End Bearing Fit Rotor Body Opposite Drive End Bearing

Na

54. Coupling Fit Closest to Bearing Housing

0 Degrees 90 Degrees 120 Degrees

Na

55. Coupling Fit Closest to the end of the Shaft

0 Degrees 60 Degrees 120 Degrees

Na

56. Drive End Bearing Shaft Fit

0 Degrees 60 Degrees 120 Degrees

Na

57. Drive End Bearing Shaft Fit Condition

(P) Pass





58. Opposite Drive End Bearing Shaft Fit

0 Degrees 60 Degrees 120 Degrees

2.953 2.9529 2.5529

59. Opposite Drive End Bearing Shaft Fit Condition(P) Pass

60. Shaft Air Seal Fits

Drive End Air Seal Opposite Drive End Air Seal

Na

#### **Mechanical Fits- Bearing Housings**

	04	Daine Ford - Fordhall Decision Fit			
	61.	Drive End - Endbell Bearing Fit			
		0 Degrees	60 Degrees	120 Degrees	
	7	Na			
	62.	Drive End - Endbell Bearing Fit Condition	tion		(P) Pass
	63.	Opposite Drive End - Endbell Bearing	Fit		
		0 Degrees	60 Degrees	120 Degrees	
		5.1187	5.1188	5.1188	
	64.	Opposite Drive End - Endbell Bearing	Fit Condition		(P) Pass
	65.	Bearing Cap Condition			
		Drive End Bearing Cap	Opposite Drive End Bearing Cap		
			pass		
	66.	End Bell Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
	67.	List Machine Work Needed Below			
		None.			
	68.	Technician		Terrence	Holland
		-0 1/-			
	/	Loll			
	/-		/		
R	oot (	Cause of Failure	,		

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# 69. Failure locations





70. Root cause of failure

Windings shorted to ground in slot. Cause is indeterminate.

#### **Dynamic Balance Report**

71. Rotor Weight and Balance Grade

Rotor Weight Balance Grade

■ Na

72. Initial Balance Readings

Drive End Opposite Drive End

Na

73. Final Balance Readings

Drive End Opposite Drive End

Na

74. Technician

Na

#### Rewind

75. Core Test Results - Watts loss per Pound

Pre-Burnout Post Burnout

Na

76.	Core Hot Spot Test			
	Pre-Burnout	Post-Burnout		
-	Na			
77.	Post Rewind Electrical Test- Insulation	n Resistance		Megohms
-	Na			
78.	Post Rewind Polarization Index		Pola	arization Index
-	Na			
79.	Post Rewind Winding Resistance			
	1-2	1-3	2-3	
-	Na			
80.	Post Rewind Surge Test			(Pass) Pass
81.	Post Rewind Hi-Pot			micro-amps
-	Na			
82.	Technician			
Asser	nbly			
83.	QC Check All Parts for Cleanliness Pr	ior to Assembly		Trevor Hall
		$\neg 1$		





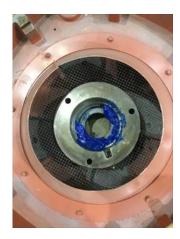










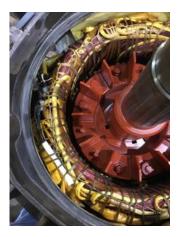


























85.	Final Insulation Resistance Test		2000 Megohms
86.	Assembled Shaft Endplay		inches
-	Na		
87.	Assembled Shaft Runout		inches
-	Na		
88.	Test Run Voltage		
	Volts	Volts	Volts
-	Witnesses by Chris Wiley		



89. Test Run Amperage			
Amps	Amps	Amps	



90.	Drive End Vibration Readings - Inches	s Per Second	
	Horizontal	Vertical	Axial
	0.04	0.03	0.04
91.	Opposite Drive End Vibration Reading	gs - Inches Per Second	
	Horizontal	Vertical	Axial
	0.01	0.02	0.02
92.	Ambient Temperature - Fahrenheit		
-	Na		
93.	Drive End Bearing Temps - Fahrenhe	it	
93.	Drive End Bearing Temps - Fahrenhe 5 Minutes	it 10 Minutes	15 Minutes
93.	· ·		15 Minutes
93.	· ·		15 Minutes
93.	5 Minutes	10 Minutes	15 Minutes
	5 Minutes	10 Minutes	15 Minutes 15 Minutes
	5 Minutes  Na  Opposite Drive End Bearing Temps -	10 Minutes Fahrenheit	

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# 95. Document Final Condition with Pictures after paint



96. Final Pics and QC Review Trevor Hall

Co-sign: Chris W.



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- 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.
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