

# LR Motor Shop Repairs

## **Job Number 104132**

Prepared for Evonik(10512)

10300 Arch St. Pike Little Rock AR 72206

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AC Inspection as Found - LR MOTOR SHOP

AC Inspection - Rev. 2: MOTOR SER # 14651

1.0





#### **AC Inspection as Found** Evonik(10512)

10300 Arch St. Pike Little Rock, AR 72206

FolderID: 104132 FormID: 23362647

#### AC Inspection - Rev. 2

Location: LR MOTOR SHOP Serial Number: MOTOR SER # 14651

Description: ACRISON MOTOR W GEARBOX#

M2014B1H15CB013

SIZE 21

LITTLE MOTOR DATA

Hi-Speed Job Number:	104132
Manufacturer:	Other
Product Number:	105Z-KK
Serial Number:	MOTOR SER# 14651
# of Leads:	Other
J-box Included:	None
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	No
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	No
Bearing Type:	Rolling Element

Priorities Found: 1 - High

7 - Good

#### **Overall Condition**

Report Date 02/17/2025

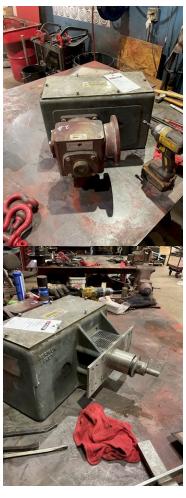
2. Nameplate Picture





Photos of all six sides of the machine.

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Describe the Overall Condition of the Equipment as Received
 Serviceable

		Serviceable			
Ir	nitial	Mechanical/Electrical			
	5.	Does Shaft Turn Freely?			(N) No
	6.	Does the shaft require T.I.R in Lathe to	o identify additional repairs?		(No) No
	7.	Does Shaft Have Visible Damage?			(No) No
	8.	Assembled Shaft Runout			0 Inches
	9.	Assembled Shaft End Play			0 inches
	10.	Air Gap Variation <10%			na
	11.	Lead Condition			(NA) Not Applicable
	12.	Lead Length			Inches
	-	Na			
	13.	Does it have Lugs?, If so what is the S	Stud Size?		
	-	Na			
	14.	Lead Numbers			
	-	Na			
	15.	Frame Condition			
	7	Na			
	16.	Fan Condition			(N) NA
	17.	Does motor have internal fan?			
	-	Na			
	18.	Broken or Missing Components			
	-	Na			
Ir	nitial	Electrical Inspection			
	19.	Insulation Resistance/Megger			Megohms
	-	Na			
	20.	Winding Resistance			
		1-2	1-3	2-3	
	<b>P</b>	Na			(111)
	21.	Perform Surge Test			(NA) Not Applicable
	22.	Number of Stator Slots			
	-	Na			
	23.	Stator Condition			
	-	Na			

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24.	Stator Thermistors/Ohms Na
25.	
-	Na Na
Mecha	anical Inspection
26.	Drive End Bearing Brand
-	Na
27.	Drive End Bearing Number-
-	Na
28.	Drive End Bearing Qty.  Na
	Drive End Bearing Type
<b>2</b> 0.	Na
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 Table 1 and 1 a
33.	Drive End Bearing Condition  Na
34.	
<b>—</b>	Na
35.	Opposite Drive End Bearing Number-
-	Na
36.	Opposite Drive End Bearing Qty.
-	Na
37.	11 7
38.	71
39.	Opposite Drive End Bearing Insulation or Grounding Device?
40.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?
-	Na
41.	Opposite Drive End Bearing Condition
-	Na
	Drive End Seal
42	Na Opposite Drive End Seel
43.	Opposite Drive End Seal  Na
	Inspection
	Rotor Type/Material
-	Na Na
45.	Growler Test
-	Na
	Number of Rotor Bars
47	Na Rotor Condition
4/.	BOWN LOWER WITH THE PROPERTY OF THE PROPERTY O
-	Na Na

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48.	List the Parts needed for the Repair	Below	
	Na		
49.	Signature of Technician that Disasse	embled Motor	
7	Na		
Mech	anical Fits- Rotor		
50.	Shaft Runout		inches
-	Nw		
51.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
-	Nw		
52.	Coupling Fit Closest to Bearing House	sing	
	0 Degrees	90 Degrees	120 Degrees
-	Nw		
53.	1 0		_
	0 Degrees	60 Degrees	120 Degrees
-	Na		
54.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
-	Na		
55.	Drive End Bearing Shaft Fit Condition	n	
-	Na		
56.	Opposite Drive End Bearing Shaft F	t	
	0 Degrees	60 Degrees	120 Degrees
	Na		
57.	Opposite Drive End Bearing Shaft F	t Condition	(NA) Not Applicable
	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
Vloob	Na		
	anical Fits- Bearing Housings  Drive End - Endbell Bearing Fit		
59.	•	60 Dogroop	120 Dograda
	0 Degrees	60 Degrees	120 Degrees
•	Na		
60.	Drive End - Endbell Bearing Fit Cond	dition	(NA) Not Applicable
61.	Opposite Drive End - Endbell Bearin	g Fit	
	0 Degrees	60 Degrees	120 Degrees
-	Na		
62.	Opposite Drive End - Endbell Bearin	g Fit Condition	(NA) Not Applicable

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63.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
-	Na		
64.			
	Drive End Air Seal	Opposite Drive End Air Seal	
	.,		
-	Na		
65.			
	Na		
66.	Technician		RW
	.//		
	// 1		
11/2			
-	Co sign TRH		
Root	Cause of Failure		
67.	Failure locations		
	Out put shaft bronze bushing bad		
68.	Root cause of failure		
	In put gearbox leaking oil and output si	haft on main gearbox locked up	
Dynai	mic Balance Report		
69.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
	, and the second		
70.	Initial Balance Readings		
	Drive End	Opposite Drive End	



71.	Final Balance Readings	
	Drive End	Opposite Drive End
72.	Technician	
Assen	nbly	

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74. Photograph All Major Components prior to assembly

(Complete) Complete















75.	Final Insulation Resistance Tes	t	Megohms
76.	Assembled Shaft Endplay		inches
77.	Assembled Shaft Runout		inches
78.	Test Run Voltage		
	Volts	Volts	Volts
79	Test Run Amperage		
70.	Amps	Amps	Amps
	7 tilipo	, unpo	7111100
80.	Drive End Vibration Readings -	Inches Per Second	
	Horizontal	Vertical	Axial
81.	. Opposite Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
82.	Ambient Temperature - Fahren	neit	
83.			
	5 Minutes	10 Minutes	15 Minutes
84.	Opposite Drive End Bearing Te	mps - Fahrenheit	
	5 Minutes	10 Minutes	15 Minutes
0.E	States Temperatures Februaries	:4	
oo.	Stator Temperatures- Fahrenhe	10 Minutes	15 Minutes
	5 Minutes		









RW

87. Final Pics and QC Review

Co sign CRW



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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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- 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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