

# 

# LR Motor Shop Repairs

## **Job Number 104136**

Prepared for Rogers Group (01189502)

1032 Hwy 5 Cabot AR 72023

## **Table of Contents**

AC Inspection as Found - LR MOTOR SHOP	AC Inspection - Rev. 2: GV201352181	1.0
Gearbox Inspection - LR MOTOR SHOP	Gearbox Inspection	2.0

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AC Inspection as Found Rogers Group (01189502)

1032 Hwy 5 Cabot, AR 72023 FolderID: 104136 FormID: 23366633

AC Inspection - Rev. 2		Hi-Speed Job Number:	104136
Location:	LR MOTOR SHOP	Manufacturer:	Other
Serial Number:	GV201352181	Product Number:	PART#247160
Description:106.6 HP DODGE		Serial Number:	GV201352181
		HP/kW:	106.6 (HP)
		RPM:	1827 (RPM)
		Repair Stage:	Final

#### Priorities Found:

Overa	Overall Condition				
1.	Report Date				
2.	Nameplate Picture				
3.	Photos of all six sides of the machine.				
4.	Describe the Overall Condition of the	Equipment as Received			
5.	Distance from the end of the shaft to t	he Coupling/Sheave			
Initial	Mechanical/Electrical				
6.	Does Shaft Turn Freely?				
7.	Does the shaft require T.I.R in Lathe t	o identify additional repairs?			
8.	Does Shaft Have Visible Damage?				
9.	Assembled Shaft Runout				
10.	Assembled Shaft End Play				
11.	Air Gap Variation <10%				
12.	Lead Condition				
13.	Lead Length				
14.	Does it have Lugs?, If so what is the S	Stud Size?			
15.	Lead Numbers				
16.	Stator Temperature Detector Rating a	nd Function			
	Quantity	Rating	Quantity Passed		
17.	Bearing Temperature Detector Rating				
	Quantity	Rating	Quantity Passed		
18	Frame Condition				
	Fan Condition				
	Does motor have internal fan?				
	Heater Quantity, Ratings				
	Quantity	Volts/Watts	Pass/Fail		
	Quantity	voito, vvatto	1 400/1 4/1		
22.	Broken or Missing Components				
lus iti a l	Electrical Increation				

### **Initial Electrical Inspection**

00	1 1 ti D i t ///				
	Insulation Resistance/Megger				
24.	Winding Resistance				
	1-2	1-3	2-3		
25.	Perform Surge Test				
26.	Number of Stator Slots				
27.	Stator Condition				
28.	Stator Thermistors/Ohms				
	Stator Overloads/Ohms				
	anical Inspection				
	Drive End Bearing Brand				
	Drive End Bearing Number-				
32.	Drive End Bearing Qty.				
	Drive End Bearing Type				
35.	Drive End Bearing Insulation or Groun	ding Device?			
36.	Drive End Wavy Washer/Snap-Ring O	•			
37.	Drive End Bearing Condition				
38.	Opposite Drive End Bearing Brand				
39.	Opposite Drive End Bearing Number-				
40.	Opposite Drive End Bearing Qty.				
41.	Opposite Drive End Bearing Type				
42.	* *				
43.					
44.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?				
45.	Opposite Drive End Bearing Condition				
46.	Drive End Seal				
47.	Opposite Drive End Seal				
48.	DE Sleeve Bearing Inside Diameter				
	0 degrees	120 degrees	240 degrees		
40	DE Clasua Bassing Outside Diameter				
49.	DE Sleeve Bearing Outside Diameter	120 dograda	240 degrees		
	0 degrees	120 degrees	240 degrees		
50.	DE Sleeve Bearing Housing Inside Dia	ameter			
	0 degrees	120 degrees	240 degrees		
		<b>.</b>			
51.	DE Sleeve Bearing to Housing Cleara	nce			
	0 degrees	120 degrees	240 degrees		
52.	ODE Sleeve Bearing Inside Diameter				
	0 degrees	120 degrees	240 degrees		
52	ODE Sleeve Bearing Outside Diamete	or .			
55.	0 degrees	120 degrees	240 degrees		
	o degrees	120 0091003	270 deglees		

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54.	ODE Sleeve Bearing Housing Inside I	Diameter	
	0 degrees	120 degrees	240 degrees
55.	ODE Sleeve Bearing to Housing Clea		0.40
	0 degrees	120 degrees	240 degrees
Potor	Inspection		
	Rotor Type/Material		
	Growler Test		
	Number of Rotor Bars		
	Rotor Condition		
	List the Parts needed for the Repair B	elow	
	Signature of Technician that Disasser		
	anical Fits- Rotor		
	Shaft Runout		
	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
	y		5 F F 55.05 2 5 2 2 256g
64.	Coupling Fit Closest to Bearing Housi	ng	
	0 Degrees	90 Degrees	120 Degrees
65.	Coupling Fit Closest to the end of the		
	0 Degrees	60 Degrees	120 Degrees
66	Drive End Bearing Shaft Fit		
00.	0 Degrees	60 Degrees	120 Degrees
	o Degrees	00 Degrees	120 Degrees
67.	Drive End Bearing Shaft Fit Condition		
68.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	Opposite Drive End Bearing Shaft Fit	Condition	
70.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
Maah	anical Fits- Bearing Housings		
	Drive End - Endbell Bearing Fit		
71.	0 Degrees	60 Degrees	120 Dograps
	0 Degrees	ou Degrees	120 Degrees
72.	Drive End - Endbell Bearing Fit Condi	tion	
73.	Opposite Drive End - Endbell Bearing	Fit	
	0 Degrees	60 Degrees	120 Degrees
	-	-	-
74.	11 3	Fit Condition	
75.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	

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76.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
	1: (14 1: 14 1.15 1.15 1.15 1.15 1.15 1.15 1.15 1		
	List Machine Work Needed Below Technician		
	Cause of Failure		
	Failure locations		
	Root cause of failure		
_	nic Balance Report		
81.	Rotor Weight and Balance Grade		
	Rotor Weight	Balance Grade	
82.	Initial Balance Readings		
	Drive End	Opposite Drive End	
92	Final Balance Readings		
03.	Drive End	Opposite Drive End	
	Drive End	Opposite Drive End	
84.	Technician		
Rewin	nd		
85.	Core Test Results - Watts loss per Po	und	
	Pre-Burnout	Post Burnout	
	To Bulliout	1 oot Barriout	
86.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
87.	Post Rewind Electrical Test- Insulation	n Resistance	
88.	Post Rewind Polarization Index		
89.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
00	D 10 T 1		
	Post Rewind Surge Test		
	Post Rewind Hi-Pot		
	Technician		
	anical Fits- Rotor - Post Repair		
	Shaft Runout Post Repair		
94.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
95.	Coupling Fit Closest to Bearing Housi	ng Post Renair	
JJ.	0 Degrees	90 Degrees	120 Degrees
	0 Degrees	30 Degrees	120 Degrees
96.	Coupling Fit Closest to the end of the	Shaft Post Repair	
	0 Degrees	60 Degrees	120 Degrees
97.	Drive End Bearing Shaft Fit Post Repa	air	
	0 Degrees	60 Degrees	120 Degrees
	ŭ	ū	Ü

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98.	8. Opposite Drive End Bearing Shaft Fit Post Repair				
	0 Degrees	60 Degrees	120 Degrees		
99.	Shaft Air Seal Fits Post Repair				
	Drive End Air Seal	Opposite Drive End Air Seal			
100	Shaft Repair Sign-off				
	anical Fits- Bearing Housings - P	ost Repair			
	Drive End - Endbell Bearing Fit Post F	•			
	0 Degrees	60 Degrees	120 Degrees		
		·	-		
102.	Opposite Drive End - Endbell Bearing	·			
	0 Degrees	60 Degrees	120 Degrees		
103.	Bearing Cap Condition Post Repair				
	Drive End Bearing Cap	Opposite Drive End Bearing Cap			
		, ,			
104.	End Bell Air Seal Fits Post Repair				
	Drive End Air Seal	Opposite Drive End Air Seal			
105	DE Sloove Poering Incide ID Doct Po	ooir			
105.	DE Sleeve Bearing Inside ID Post Rep Measure 1	Measure 2	Measure 3		
	iviedsure i	ivieasure 2	ivieasure 3		
106.	DE Sleeve Bearing Outside ID Post R	epair			
	Measure 1	Measure 2	Measure 3		
107.	DE Sleeve Bearing Inside OD Post Re	•	Marana		
	Measure 1	Measure 2	Measure 3		
108.	DE Sleeve Bearing Outside OD Post Repair				
	Measure 1	Measure 2	Measure 3		
	End Bell Repair Sign-off				
110.	ODE Sleeve Bearing Inside ID Post R	•			
	Measure 1	Measure 2	Measure 3		
111.	ODE Sleeve Bearing Outside ID Post	Repair			
	Measure 1	Measure 2	Measure 3		
112.	ODE Sleeve Bearing Inside OD Post I	•			
	Measure 1	Measure 2	Measure 3		
113	ODE Sleeve Bearing Outside OD Pos	t Repair			
110.	Measure 1	Measure 2	Measure 3		
Assen	nbly				
114.	114. QC Check All Parts for Cleanliness Prior to Assembly				
115.	Photograph All Major Components pri	or to assembly			

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116. F	Final Insulation Resistance Test		
117. A	Assembled Shaft Endplay		
118. A	Assembled Shaft Runout		
119. T	Гest Run Voltage		
\	Volts	Volts	Volts
	Test Run Amperage		
P	Amps	Amps	Amps
121. E	Drive End Vibration Readings - Inches	Per Second	
	Horizontal	Vertical	Axial
			, 510.
122. C	Opposite Drive End Vibration Reading	s - Inches Per Second	
F	Horizontal	Vertical	Axial
	3. Ambient Temperature - Fahrenheit		
	Drive End Bearing Temps - Fahrenhei		45.00
5	5 Minutes	10 Minutes	15 Minutes
125. E	Drive End Bearing Temps - Fahrenheit	t 20-30 Minutes	
	20 Minutes	25 Minutes	30 Minutes
126. E	Drive End Bearing Temps - Fahrenhei	t 35-45 Minutes	
3	35 Minutes	40 Minutes	45 Minutes
407 5	Daire Ford Decaire Teams - Februaries	150 00 Minutes	
	Orive End Bearing Temps - Fahrenheit		CO Minutes
5	50 Minutes	55 Minutes	60 Minutes
128. C	Opposite Drive End Bearing Temps - F	Fahrenheit	
	5 Minutes	10 Minutes	15 Minutes
129. C	Opposite Drive End Bearing Temps - F	Fahrenheit 20-30 Minutes	
2	20 Minutes	25 Minutes	30 Minutes
400	One saite Date Ford Date T	Tabasahati OF 45 Minut	
	Opposite Drive End Bearing Temps - F		45 Minutes
3	35 Minutes	40 Minutes	45 Minutes

131. Opposite Drive End Bearing	g Temps - Fahrenheit 50-60 Minutes		
50 Minutes	55 Minutes	60 Minutes	
132. Stator Temperatures- Fahro	enheit		
5 Minutes	10 Minutes	15 Minutes	
133. Stator Temperatures- Fahre	enheit 20-30 Minutes		
20 Minutes	25 Minutes	30 Minutes	
134. Stator Temperatures- Fahre	Stator Temperatures- Fahrenheit 35-45 Minutes		
35 Minutes	40 Minutes	45 Minutes	
135. Stator Temperatures- Fahre	enheit 50-60 Minutes		
50 Minutes	55 Minutes	60 Minutes	
136. Document Final Condition	with Pictures after paint		
137. Final Pics and QC Review			

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## **Gearbox Inspection** Rogers Group (01189502)

1032 Hwy 5 Cabot, AR 72023 FolderID: 104136 FormID: 23389389

Gearbox Inspection

Priorities Found: 4 - High

Location: LR MOTOR SHOP

Serial Number:

1 - Medium

Customer Name:: Manufacturer::

Hi-Speed Job Number:

2 - Good

### **Gearbox Visual Inspection**

1. Date Inspection Performed







104136

Dodge

Rogers Group





















2.	Oil Condition		
	Wear	Physical	Contaminants
	Some contaminants		
3.	Gears:		
	Wear	Physical	Contaminants



4.	Seals:		
	Wear	Physical	Contaminants

_		Lincolo		
-		Lip seals 65-100-8 mm 126-162-13 mm		
	5.	Environmental Conditions		
		Ambient Temparature (F)	Humidity	Contaminants
	6.	Physical Issues		
		Signs of Excessive Heat?	Signs of Lubricant Leaks?	Contaminants
		•	•	
7		Oil leak around seals		
	7.	Other conditions		
		Gearbox Temperature (F)	Moisture Presence	Contaminants
Ge	arb	ox Inspection & Evaluation Che	cklist	
	8.	Primary drive rotates input shaft in co	rrect direction	
	9.	Condition of Machinery Guards if Pre	sent	
1	10.	Condition of Coupling Guards if Prese	ent	
1	11.	Type of Coupler:		
1	12.	Coupling Alignment		
1	13.	Condition of Housing		(Pass) Acceptable
1	14.	Condition of Mounting Hardware		
• 1	15.	Breather Vent Installed:		(Missing) Missing/Damaged
1	16.	Condition of Piping & connections (if	forced lube system installed)	
1	17.	. Condition of switches, alarms, heaters, coolers or other devices		
1	18.	Condition of inspection covers		
• 1	19.	Condition of seals & bearings		(Fail) Unacceptable
2	21.	Gearbox Oil Level [COPY]		
2		Type and Grade of Specified Lubrica		
		71 0 1	bricant	
		Appearance of lubricant		(Fail) Unacceptable
		Free rotation of shafts		(Yes) Yes
		Condition of Input shaft		(Pass) Acceptable
		Gear tooth condition		(Pass) Acceptable
		<b>-</b>		(None) None/New
		Gear tooth Contact		(Pass) Acceptable
		ox Summary		
3	30.	Summary of Issues and Overall Cond Bearings and seals	lition of the Gearbox	
3	31.	Technician Signature		Cw
		Min		
		Co sign: TRH		



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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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- 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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- 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.
- 12. ABANDONED EQUIPMENT. Hi-Speed requires that Buyer promptly pick up or provide shipment instructions for Buyer equipment or other Buyer property in Hi-Speed's possession. If equipment or other Buyer property is left with Hi-Speed and not picked up within six (6) months after Hi-Speed's final action related to the applicable property (e.g. evaluation, teardown, estimate, completion of services), Hi-Speed will consider such property abandoned and may dispose of it in accordance with applicable law. Buyer agrees to hold Hi-Speed harmless for any damage or claim for such abandoned property and acknowledges that Hi-Speed may discard or recycle it at Hi-Speed's sole and absolute discretion. Specifically, Hi-Speed may sell Buyer's abandoned property at a private or public sale and retain the proceeds to offset Hi-Speed's storage, inspection and servicing costs. For the avoidance of doubt, Hi-Speed reserves its statutory and other lawful liens for unpaid charges related to abandoned property.
- 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. <u>ASSIGNMENT.</u> 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.