

# 

# LR Motor Shop Repairs

## **Job Number 104136**

Prepared for Rogers Group (01189502)

1032 Hwy 5 Cabot AR 72023

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

> FolderID: 104136 FormID: 23366633

## **AC Inspection as Found**

Rogers Group (01189502)

1032 Hwy 5 Cabot, AR 72023

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	II 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 to	o identify additional repairs?	
8.	Does Shaft Have Visible Damage?		
9.	Assembled Shaft Runout		
10.	Assembled Shaft End Play		
	Air Gap Variation <10%		
	Lead Condition		
	Lead Length		
	Does it have Lugs?, If so what is the S	Stud Size?	
	Lead Numbers		
16.	Stator Temperature Detector Rating a		
	Quantity	Rating	Quantity Passed
17	Bearing Temperature Detector Rating	and Eupation	
17.	· · · · · · · · · · · · · · · · · · ·		Oughtity Doggod
	Quantity	Rating	Quantity Passed
18.	Frame Condition		
19.	Fan Condition		
20.	Does motor have internal fan?		
21.	Heater Quantity, Ratings		
	Quantity	Volts/Watts	Pass/Fail
22.	Broken or Missing Components		
Initial	Flectrical Inspection		

### **Initial Electrical Inspection**

23.	Insulation Resistance/Megger				
24.	Winding Resistance				
	1-2	1-3	2-3		
25.	Perform Surge Test				
26.					
27.	Stator Condition				
	Stator Thermistors/Ohms				
	Stator Overloads/Ohms				
Mecha	anical Inspection				
30.	<u> </u>				
31.	<u> </u>				
32.	3,				
	Drive End Bearing Type				
34.					
35.	Drive End Bearing Insulation or Groun	-			
36.	Drive End Wavy Washer/Snap-Ring O	ther Retention Device?			
37.	<u> </u>				
38.	-11				
39.	-11				
40.	Opposite Drive End Bearing Qty.				
41. 42.	Opposite Drive End Lubrication Type				
43.	Opposite Drive End Lubrication Type Opposite Drive End Bearing Insulation or Grounding Device?				
44.		-			
45.	Opposite Drive End Bearing Condition	· -			
46.					
47.					
	DE Sleeve Bearing Inside Diameter				
	0 degrees	120 degrees	240 degrees		
		0 009.000	acg		
49.	DE Sleeve Bearing Outside Diameter				
	0 degrees	120 degrees	240 degrees		
50.	DE Sleeve Bearing Housing Inside Dia				
	0 degrees	120 degrees	240 degrees		
F1	DE Clasua Bassing to Hausing Classe				
31.	DE Sleeve Bearing to Housing Cleara		240 dogrado		
	0 degrees	120 degrees	240 degrees		
52.	ODE Sleeve Bearing Inside Diameter				
	0 degrees	120 degrees	240 degrees		
			3.2.2.		
53.	ODE Sleeve Bearing Outside Diamete	г			
	0 degrees	120 degrees	240 degrees		

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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 degrees	120 degrees	240 degrees
Deter	luonostion		
	Inspection Rotor Type/Material		
57.			
	Number of Rotor Bars		
	Rotor Condition		
	List the Parts needed for the Repair B	selow	
	Signature of Technician that Disassembled Motor		
	anical Fits- Rotor		
	Shaft Runout		
63.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
	3	,	5/1/11/11
64.	Coupling Fit Closest to Bearing Housi	ng	
	0 Degrees	90 Degrees	120 Degrees
0.5	0 11 51 01 11 11 11	0) 6	
65.	Coupling Fit Closest to the end of the		400 D
	0 Degrees	60 Degrees	120 Degrees
66.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
		- C - C - C - C - C - C - C - C - C - C	0 _ 0g.000
67.	Drive End Bearing Shaft Fit Condition		
68.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	0 " 0 " 5 10 " 0 " "	0 111	
	Opposite Drive End Bearing Shaft Fit	Condition	
70.	Shaft Air Seal Fits	Opposite Drive Ford Air Cool	
	Drive End Air Seal	Opposite Drive End Air Seal	
Mecha	anical Fits- Bearing Housings		
	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
72.	Drive End - Endbell Bearing Fit Condi	tion	
73.	Opposite Drive End - Endbell Bearing	Fit	
	0 Degrees	60 Degrees	120 Degrees
	One sale Dai E. I. E. II. II. D. I	Fit On whitien	
74.	11 3	Fit Condition	
75.	<b>J</b>	Opposite Drive End Pearing Con	
	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: (M 1: M 1M 1 D 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.	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	
	Shaft Repair Sign-off		
	anical Fits- Bearing Housings - P	•	
101.	Drive End - Endbell Bearing Fit Post F	•	100 5
	0 Degrees	60 Degrees	120 Degrees
102.	Opposite Drive End - Endbell Bearing	Fit Post Repair	
	0 Degrees	60 Degrees	120 Degrees
		30 2 3g. 333	0 _ 0g. 000
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 Sleeve Bearing Inside ID Post Re	pair	
100.	Measure 1	Measure 2	Measure 3
	Wodedie i	Modelio 2	Widden's S
106.	DE Sleeve Bearing Outside ID Post R	epair	
	Measure 1	Measure 2	Measure 3
107.	DE Sleeve Bearing Inside OD Post Re		
	Measure 1	Measure 2	Measure 3
108	DE Sleeve Bearing Outside OD Post I	Renair	
100.	Measure 1	Measure 2	Measure 3
	Modelle 1	Modelio 2	Widden's S
109.	End Bell Repair Sign-off		
110.	ODE Sleeve Bearing Inside ID Post R	epair	
	Measure 1	Measure 2	Measure 3
	005.01		
111.	ODE Sleeve Bearing Outside ID Post	•	
	Measure 1	Measure 2	Measure 3
112	ODE Sleeve Bearing Inside OD Post I	Renair	
	Measure 1	Measure 2	Measure 3
113.	ODE Sleeve Bearing Outside OD Pos	t Repair	
	Measure 1	Measure 2	Measure 3
_			
Assen	•		
	QC Check All Parts for Cleanliness Pr	<del>-</del>	
	Photograph All Major Components pri	or to assembly	
116.	Final Insulation Resistance Test		

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117.	Assembled Shaft Endplay		
118.	Assembled Shaft Runout		
119.	Test Run Voltage		
	Volts	Volts	Volts
120.	Test Run Amperage		
	Amps	Amps	Amps
121	Drive End Vibration Readings - Inches	s Per Second	
	Horizontal	Vertical	Axial
	Tionzonia.	Volume	, ona
122.	Opposite Drive End Vibration Reading	gs - Inches Per Second	
	Horizontal	Vertical	Axial
	Ambient Temperature - Fahrenheit	14	
124.	Drive End Bearing Temps - Fahrenhe		45 Minutos
	5 Minutes	10 Minutes	15 Minutes
125.	Drive End Bearing Temps - Fahrenhe	it 20-30 Minutes	
	20 Minutes	25 Minutes	30 Minutes
126.	Drive End Bearing Temps - Fahrenhe	it 35-45 Minutes	
	35 Minutes	40 Minutes	45 Minutes
407	Drive Fred Decrine Towns - Februaries	4 50 00 Minutes	
127.	Drive End Bearing Temps - Fahrenhe		CO Minutes
	50 Minutes	55 Minutes	60 Minutes
128.	Opposite Drive End Bearing Temps -	Fahrenheit	
	5 Minutes	10 Minutes	15 Minutes
129.	Opposite Drive End Bearing Temps -		
	20 Minutes	25 Minutes	30 Minutes
120	Opposite Drive End Bearing Temps -	Eahranhait 35-45 Minutos	
130.	35 Minutes	40 Minutes	45 Minutes
	Jo Milliutes	TO MINITULES	TO MINIMES
131.	Opposite Drive End Bearing Temps -	Fahrenheit 50-60 Minutes	
	50 Minutes	55 Minutes	60 Minutes
132.	Stator Temperatures- Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
133	Stator Temperatures- Fahrenheit 20-3	80 Minutes	
100.	20 Minutes	25 Minutes	30 Minutes
	20 Milliatos	20 Milliatos	oo miiiddo
134.	Stator Temperatures- Fahrenheit 35-4	15 Minutes	
	35 Minutes	40 Minutes	45 Minutes

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135. Stator Temperatures- Fahrenheit 50-60 Minutes			
50 Minutes 55 Minutes 60 Minutes			
136. Document Final Condition v	vith Pictures after paint		
137. Final Pics and QC Review			





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

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

**Gearbox Inspection** 

Location: LR MOTOR SHOP

Serial Number:

1 - Medium

Customer Name::

2 - Good

Hi-Speed Job Number:

Rogers Group

104136

Manufacturer:: Dodge

Priorities Found: 4 - High

Gearbox Visual Inspection

1. Date Inspection Performed



























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



4.	Seals:		
	Wear	Physical	Contaminants

	l in cools		
	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
	Oil leak around seals		
7.	Other conditions		
,,	Gearbox Temperature (F)	Moisture Presence	Contaminants
	Gearbox Temperature (1 )	Moisture Freserice	Contaminants
Gearl	box Inspection & Evaluation Ch		
8.	Primary drive rotates input shaft in		
9.	Condition of Machinery Guards if F		
10.	3	esent	
11.	Type of Coupler:		
12.	1 0 0		
13.			(Pass) Acceptable
14.	Condition of Mounting Hardware		
<b>1</b> 5.			(Missing) Missing/Damaged
16.	Condition of Piping & connections	(if forced lube system installed)	
17.	Condition of switches, alarms, hear	ers, coolers or other devices	
18.	Condition of inspection covers		
<b>1</b> 9.	Condition of seals & bearings		(Fail) Unacceptable
20.	Gearbox Oil Level		
21.	Gearbox Oil Level [COPY]		
22.	Type and Grade of Specified Lubric		
23.	Correct type and grade of specified	llubricant	
<b>2</b> 4.	Appearance of lubricant		(Fail) Unacceptable
_	Free rotation of shafts		(Yes) Yes
	Condition of Input shaft		(Pass) Acceptable
27.	Gear tooth condition		(Pass) Acceptable
			(None) None/New
28.	•		
29.	Gear tooth Contact		(Pass) Acceptable
29. <b>Gearl</b>	Gear tooth Contact		(Pass) Acceptable
29. <b>Gearl</b>	Gear tooth Contact box Summary Summary of Issues and Overall Co	ndition of the Gearbox	(Pass) Acceptable
29. <b>Gearl</b> 30.	Gear tooth Contact	ndition of the Gearbox	(Pass) Acceptable
29. <b>Gearl</b> 30.	Gear tooth Contact box Summary Summary of Issues and Overall Co Bearings and seals	ndition of the Gearbox	



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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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- 8. <u>WARRANTIES.</u> 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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- 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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- 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. **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.
- 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.