

# LR Motor Shop Repairs

# **Job Number 104410**

Prepared for US Vanadium

6105 Cynamide Benton AR 72015

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AC Inspection as Found - LR MOTOR SHOP

AC Inspection - Rev. 2: IEEE200-18447TBB

1.0





# **AC Inspection as Found**

US Vanadium 6105 Cynamide Benton, AR 72015

FolderID: 104410 FormID: 23992553

#### AC Inspection - Rev. 2

Location: LR MOTOR SHOP Serial Number: IEEE200-18447TBB Description: 200 HP CROWN TRITON

Hi-Speed Job Number:	104410
Manufacturer:	Other
Product Number:	PLP447SR0408
Serial Number:	IEEE200-18447TBB
HP/kW:	200 (HP)
RPM:	1785 (RPM)
Frame:	447T
Voltage:	460
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	No
Shaft Machined Fit Repairs Required:	Yes
Bearing Housing Machined Fit Repairs Required:	Yes
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 4 - High

10 - Good

**Overall Condition** 

04/07/2025 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 *Dirty* 

Initial Mechanical/Electrical			
5.	Does Shaft Turn Freely?	(Y) Yes	
6.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(Yes) Yes	
7.	Does Shaft Have Visible Damage?	(No) No	
8.	Assembled Shaft Runout	Inches	
9.	Assembled Shaft End Play	inches	
0.	Air Gap Variation <10%	ok	
1.	Lead Condition	(P) Pass	
2.	Lead Length	12 Inches	
3.	Does it have Lugs?, If so what is the Stud Size?	(Yes) Yes	
	3/8		
4.	Lead Numbers	1-6	
5.	Frame Condition	ok	
6.	Fan Condition	(F) Fail	
7.	Does motor have internal fan?	(No) No	
8.	Broken or Missing Components	fan	
Initial Electrical Inspection			
9.	Insulation Resistance/Megger	2000 Megohms	
5 7 8 9 () 	6. 6. 7. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	Does Shaft Turn Freely? Does the shaft require T.I.R in Lathe to identify additional repairs? Does Shaft Have Visible Damage? Assembled Shaft Runout Assembled Shaft End Play Air Gap Variation <10% Lead Condition Lead Length Does it have Lugs?, If so what is the Stud Size? 3/8 Lead Numbers Frame Condition Does motor have internal fan? Broken or Missing Components	



20.	Winding Resistance			
	1-2	1-3	2-3	
	.0193	.0193	.0193	
21.	Perform Surge Test			(P) Pass
22.	Number of Stator Slots			72
23.	Stator Condition			good
24.	Stator Thermistors/Ohms			
25.	Stator Overloads/Ohms			

# **Mechanical Inspection**

26. Drive End Bearing Brand



27.	Drive End Bearing Number-	6318	
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?		
33.	Drive End Bearing Condition	normal wear	
34.	Opposite Drive End Bearing Brand		
35.	Opposite Drive End Bearing Number-	6316	
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	
41.	Opposite Drive End Bearing Condition	fatigue	
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	46	
47.	Rotor Condition	good	
48.	List the Parts needed for the Repair Below		
	6318, 6316, fan for 2 1/2 shaft diameter		

	49.	Signature of Technician that Disasser	nbled Motor	David Maclin
IV	lecha	anical Fits- Rotor	_ / /	
		Shaft Runout		0.0005 inches
		Rotor Runout		0.0003 menes
	51.	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
		0	0	0
	52	Coupling Fit Closest to Bearing Housi	•	O .
	52.		-	420 Dagrass
		0 Degrees	90 Degrees	120 Degrees
	53.	Coupling Fit Closest to the end of the	Shaft	
		0 Degrees	60 Degrees	120 Degrees
		Dogrood	00 D0g1000	120 Dog1000
	54.	Drive End Bearing Shaft Fit		
		0 Degrees	60 Degrees	120 Degrees
		3.5434	3.5435	3.5435
	55.	Drive End Bearing Shaft Fit Condition		(P) Pass
		Opposite Drive End Bearing Shaft Fit		, ,
		0 Degrees	60 Degrees	120 Degrees
		3.1498	3.1498	3.15
	57.	Opposite Drive End Bearing Shaft Fit	Condition	(P) Pass
		Shaft Air Seal Fits		, ,
		Drive End Air Seal	Opposite Drive End Air Seal	
		ok	ok	
N	lecha	anical Fits- Bearing Housings		
		Drive End - Endbell Bearing Fit		
		0 Degrees	60 Degrees	120 Degrees
		7.481	7.481	7.481
	60.	Drive End - Endbell Bearing Fit Condi	tion	(P) Pass
	61.			, ,
		0 Degrees	60 Degrees	120 Degrees
		6.6951	6.695	6.6951
	62.	Opposite Drive End - Endbell Bearing	Fit Condition	(F) Fail
	63.	Bearing Cap Condition		
		Drive End Bearing Cap	Opposite Drive End Bearing Cap	
		ok	ok	
	64.	End Bell Air Seal Fits		
		Drive End Air Seal	Opposite Drive End Air Seal	
		ok	ok	
	65.	List Machine Work Needed Below		
		Sleeve ode end bell, weld and machine	shaft ode bearing fit	

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66. Technician David Maclin



### **Root Cause of Failure**

67. Failure locations

Ode bearing

68. Root cause of failure

Contaminated

### **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 Cw

Min

Mech	Mechanical Fits- Rotor - Post Repair				
73.	Shaft Runout Post Repair		inches		
74.	Rotor Runout Post Repair				
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing		
75.	Coupling Fit Closest to Bearing Housi	ng Post Repair			
	0 Degrees	90 Degrees	120 Degrees		
76	Coupling Fit Classes to the and of the	Chaft Doot Donoir			
76.	Coupling Fit Closest to the end of the	·	400 D		
	0 Degrees	60 Degrees	120 Degrees		
77.	Drive End Bearing Shaft Fit Post Repa	air			
	0 Degrees	60 Degrees	120 Degrees		
	0 2 0 9.000	30 2 3g. 333	0 _ 0g.000		
78.	Opposite Drive End Bearing Shaft Fit	Post Repair			
	0 Degrees	60 Degrees	120 Degrees		
79.	Shaft Air Seal Fits Post Repair				
	Drive End Air Seal	Opposite Drive End Air Seal			
90	Shaft Repair Sign-off				
	anical Fits- Bearing Housings - P	oot Donoir			
	Drive End - Endbell Bearing Fit Post F	•			
01.	-	•	400 Da 2222		
	0 Degrees	60 Degrees	120 Degrees		
82.	Opposite Drive End - Endbell Bearing	Fit Post Repair			
	0 Degrees	60 Degrees	120 Degrees		
	6.6931	6.6932	6.6932		



83.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
84.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
85.	End Bell Repair Sign-off		Gary

(

# Assembly

86. QC Check All Parts for Cleanliness Prior to Assembly

Cw

87. Photograph All Major Components prior to assembly

(Complete) Complete

















88.	Final Insulation Resistance Test		Megohms
89.	Assembled Shaft Endplay		inches
90.	Assembled Shaft Runout		
91.	Test Run Voltage		
	Volts	Volts	Volts





92. Test Run Ampera	ge		
Amps	Amps	Amps	
Witnessed by:TRI	ı		



• 9	93.	Drive End Vibration Readings - Inches Per Second		
		Horizontal	Vertical	Axial
-		H-0.02 V-0.02 A-0.03		
• 9	94.	Opposite Drive End Vibration Reading	s - Inches Per Second	
		Horizontal	Vertical	Axial
•		H-0.01 V-0.01 A-0.04		
9	95.	Ambient Temperature - Fahrenheit		
9	96.	Drive End Bearing Temps - Fahrenhei	t	
		5 Minutes	10 Minutes	15 Minutes
9	97.	Opposite Drive End Bearing Temps - I	ahrenheit	
		5 Minutes	10 Minutes	15 Minutes









99. Final Pics and QC Review

Cw

Co sign: TRH



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