

# LR Motor Shop Repairs

# **Job Number 102545**

Prepared for LAYNE (10766)

2015 S Main Street STUTTGART AR 72160

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# **AC Inspection as Found** LAYNE (10766)

2015 S Main Street STUTTGART, AR 72160

FolderID: 102545 FormID: 19497009

#### AC Inspection - Rev. 2

Location: Motor Shop Serial Number: UC2830

Description: 200HP 1785RPM VERTICAL

Hi-Speed Job Number:	102545
Manufacturer:	GE
Spec/ID #:	5K445DP6005A
Serial Number:	UC2830 0
HP/kW:	200 (HP)
RPM:	1785 (RPM)
Frame:	L445TP16
Voltage:	460
Current:	234 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	DP
# of Leads:	6
J-box Included:	None
Date Received:	02/26/2024
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	No
Shaft Machined Fit Repairs Required:	Yes
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 1 - High





8 - Good

# **Overall Condition**

1. Report Date

# 2. Nameplate Picture



3. Photos of all six sides of the machine.









;7





























4.	Describe the Overall Condition of the Equipment as Received
	Serviceable

Distance from the end of the shaft to the Coupling/Sheave

Na

inches

## **Initial Mechanical/Electrical**

- 6. Does Shaft Turn Freely?
  - Ye.
- 7. Does the shaft require T.I.R in Lathe to identify additional repairs? (No) No
  - 8. Does Shaft Have Visible Damage? (No) No
  - 9. Assembled Shaft Runout Inches
  - ₩ N

10. Assembled Shaft End Play inches

- Na
- 11. Air Gap Variation <10%
- Na
- 12. Lead Condition (NA) Not Applicable
  - 13. Lead Length 16 Inches
- 14. Does it have Lugs?, If so what is the Stud Size?
  (No) No
  - 15. Lead Numbers 1,2,3 & 7,8,9
  - 16. Frame Condition
  - Pass

18. Broken or Missing Components

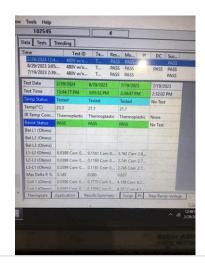
na

Megohms

# **Initial Electrical Inspection**

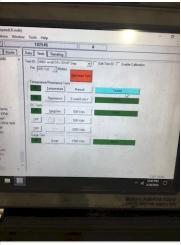
19. Insulation Resistance/Megger

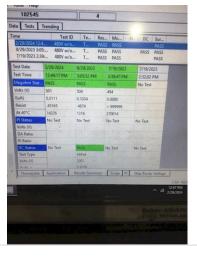




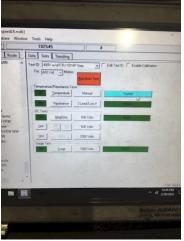
20. Winding Resistance

1-2 1-3 2-3



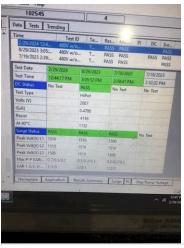


21. Perform Surge Test









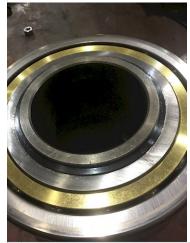
22.	Number of Stator Slots	72
23.	Stator Condition	pass
24.	Stator Thermistors/Ohms	na
25.	Stator Overloads/Ohms	na
Mecha	nical Inspection	
26.	Drive End Bearing Brand	Nachi
27.	Drive End Bearing Number-	7228BMU C3



28. Drive End Bearing Qty.
29. Drive End Bearing Type
(Thrust) Thrust



30. Drive End Lubrication Type
 31. Drive End Bearing Insulation or Grounding Device?
 32. Drive End Wavy Washer/Snap-Ring Other Retention Device?
 33. Snap ring



33. Drive End Bearing Condition

34. Opposite Drive End Bearing Brand

replace

ORS 6219 C3





35. Opposite Drive End Bearing Number-	6219 C3
36. Opposite Drive End Bearing Qty.	1
37. Opposite Drive End Bearing Type	(Ball) Ball Bearing
38. Opposite Drive End Lubrication Type	(Oil) Oil Lubricated
39. Opposite Drive End Bearing Insulation or Grounding Device?	none

40.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	none
41.	Opposite Drive End Bearing Condition	replace
42.	Drive End Seal	na
43.	Opposite Drive End Seal	
-	Na	

# **Rotor Inspection**

44. Rotor Type/Material

(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast





45. Growler Test	(Pass) Pass
46. Number of Rotor Bars	58
47. Rotor Condition	pass
48. List the Parts needed for the Repair Below	
7228 BMU/C C3 X2 6219 C3	

49. Signature of Technician that Disassembled Motor

Terrence Holland

#### **Mechanical Fits- Rotor**

50. Shaft Runout inches

Na

51. Rotor Runout

Drive End Bearing Fit Rotor Body Opposite Drive End Bearing

Na

52. Coupling Fit Closest to Bearing Housing

0 Degrees 90 Degrees 120 Degrees

Na

53. Coupling Fit Closest to the end of the Shaft

0 Degrees 60 Degrees 120 Degrees

Na

54.	Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	5.512	5.5118	5.5116	
<b>5</b> 5.	Drive End Bearing Shaft Fit Condition			(F) Fail
56.	Opposite Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	3.7406	3.7406	3.7407	
<b>5</b> 7.	Opposite Drive End Bearing Shaft Fit	Condition		(P) Pass
58.	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
-	Na			
	anical Fits- Bearing Housings			
59.	Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	Na			
60.	Drive End - Endbell Bearing Fit Condi	tion		(P) Pass
61.				(F) Fass
01.			120 Dograda	
	0 Degrees 6.6937	60 Degrees 6.6938	120 Degrees 6.6938	
<b>6</b> 2.			0.0930	(P) Pass
	Bearing Cap Condition	TH CONDITION		(1 ) 1 433
00.	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
-	Pass			
64.	End Bell Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
-	Na			
65.				
	DE bearing hub			
	Technician			
	Cause of Failure			
67.	Failure locations			
	Leads and DE bearing hub			
68.	Root cause of failure			
_	Deterioration and wear			
-	mic Balance Report			
69.	Rotor Weight and Balance Grade			
	Rotor Weight	Balance Grade		
	Na			
-	Na			

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#### 70. Initial Balance Readings

Drive End

Opposite Drive End



#### 71. Final Balance Readings

Drive End

Opposite Drive End



72. Technician Cw

Mechanical Fits- Rotor - Post Repair

73. Shaft Runout Post Repair inches

Na

74. Rotor Runout Post Repair

Drive End Bearing Fit Rotor Body Opposite Drive End Bearing

Na

75. Coupling Fit Closest to Bearing Housing Post Repair

lezy

0 Degrees 90 Degrees 120 Degrees

Na

76.	76. Coupling Fit Closest to the end of the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees
-	Na		
77	77. Drive End Bearing Shaft Fit Post Repair		
//.	Drive End Bearing Shaft Fit Post Rep	air	
77.	O Degrees	60 Degrees	120 Degrees
77.	· · · · · · · · · · · · · · · · · · ·		120 Degrees 5.5131



	78.	Opposite Drive End Bearing Shaft Fit	Post Repair	
		0 Degrees	60 Degrees	120 Degrees
	-	Na		
	79.			
		Drive End Air Seal	Opposite Drive End Air Seal	
	-	Na		
		Shaft Repair Sign-off		
M		anical Fits- Bearing Housings - P		
	81.	Drive End - Endbell Bearing Fit Post F	•	
		0 Degrees	60 Degrees	120 Degrees
	_			
	-	Na		
	82.	-11		
		0 Degrees	60 Degrees	120 Degrees
		Na		
	83.	3 - 1 - 1 - 1 - 1 - 1	0 " D: E ID : 0	
		Drive End Bearing Cap	Opposite Drive End Bearing Cap	
		Na		
	84	End Bell Air Seal Fits Post Repair		
	04.	Drive End Air Seal	Opposite Drive End Air Seal	
		Drive Erid Ali Seai	Opposite Drive End All Seal	
	•	Na		
	85.	End Bell Repair Sign-off		
Α	sser	nbly		

#### **Assembly**

Mun

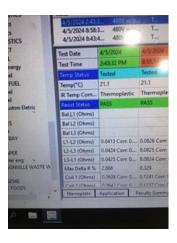
87. Photograph All Major Components prior to assembly

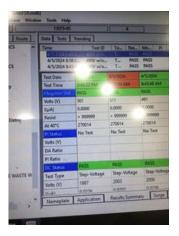




88. Final Insulation Resistance Test







ergy	DE Status	PASS:
UEL	Test Type	Step-Voltage
	Volts (V)	19
Eletric	Ι(μΑ)	0.0226
Lieug	Resist	88236
Section 1	At 40°C	23825
10000	Surge Status	PASS
Marie .	Peak Volt(V) L1	2000
	Peak Volt(V) L2	2020
19	Peak Volt(V) L3	2000
LLE WASTE W	Max P-P EAR(	0.3/0.3/0.6
	EAR 1-2/2-3/	
ys .		
	Nameplate	Application R
E Sall		
- AMA		

89. Assembled Shaft Endplay

inches

Na





92. Test Run Amperage
Amps Amps Amps



93.	Drive End Vibration Readings - Inches	Per Second	
	Horizontal	Vertical	Axial
	0.001	0.02	0.02
94.	Opposite Drive End Vibration Reading	s - Inches Per Second	
	Horizontal	Vertical	Axial
	0.02	0.02	0.02
95.	Ambient Temperature - Fahrenheit		
-	Na		
96.	Drive End Bearing Temps - Fahrenhei	t	
	5 Minutes	10 Minutes	15 Minutes
-	Na		

97. Opposite Drive End Bearing Temps - Fahrenheit

5 Minutes 10 Minutes 15 Minutes

■ Na

98. Document Final Condition with Pictures after paint





99. Final Pics and QC Review

Cw

Co sign: Trevor Hall



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

> FolderID: 102545 FormID: 19923028

# **AC Form Coil Winding Report**

LAYNE (10766) 2015 S Main Street STUTTGART, AR 72160

Priorities Found:

## **Stator Winding**

1. Core Length



23. Tooth Width

2.	Core ID
3.	Back Iron Depth
4.	Finger Plate Width
5.	Overall Coil Length
6.	Connection End Extension Length
7.	Opposite Connection End Extension Length
8.	Straight Length Bottom Side
9.	Straight Length Top Side
10.	Small knuckle drop Connection End
11.	Small knuckle drop opposite connection end
12.	Large knuckle drop connection end
13.	Large knuckle drop opposite connection end
14.	Connection Support Ring from Core
15.	Opposite Connection Support Ring from core
16.	Connection Support Ring Id
17.	Opposite Connection Support Ring ID
18.	Slot Depth
19.	Slot depth under wedge
20.	Slot Width
21.	Lead Location
22.	Coil Type

24	Number of Vents
	Vent Width
	Before Burnout Core loss
	Flux Before Burnout
	Watts before burnout
_	Watts loss per lb. before burnout
	After Burnout Core Loss
	Flux After burnout
	Watts After Burnout
	Watts loss per lb After Burnout
	Core Iron Condition
	RTD's
	RTD's Reading
	Motor Heaters
	Heater Qty. Heater Voltage
	Heater Wattage
	Thermistors
	Number of Poles
	Slots
	Number of Coils
	Coil Weight
	Lead Markings
	Grouping Grouping
	Wire Size
	Turns per coil Total Wires in parallel
	Wire Insulation
	Iron Skewed
	Pitch 1 to:
	Connection
	Lead Length
56.	Lead Size
57.	
58.	
58.	Megger Reading After Rewind  Coil Machine Slot
60.	Coil Machine Siot  Coil Machine Tip
	Coil Machine Tip  Coil Machine Pitch
61.	Hi Pot Reading After Rewind
	•
	Surge Pattern After Rewind Service Technician
04.	Service recrimicall

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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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