

LR Motor Shop Repairs

Job Number 102565

Prepared for Searcy Water and Sewer System (11242)

300 N. Elm Street Searcy AR 72145

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AC Inspection as Found

Searcy Water and Sewer System (11242)

300 N. Elm Street Searcy, AR 72145

AC Inspection - Rev. 2

Location: MOTOR SHOP LR

Serial Number: TYPE: TVC9

Description:5HP 1150RPM

Hi-Speed Job Number:	102565
Manufacturer:	US Motors/Nidec
Spec/ID #:	F12 02134993 100 F
Serial Number:	TYPE: TVC9
HP/kW:	5 (HP)
RPM:	1150 (RPM)
Frame:	215HPZ
Voltage:	230 / 460
Current:	15.4 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Repair Stage:	Final
Rewind:	Yes
Winding Type :	Random Wound

Priorities Found: **a** 2 - High



8 - Good

Overall Condition

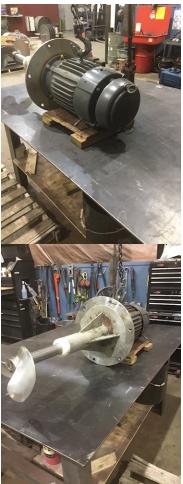
1. Report Date

Nameplate Picture



Photos of all six sides of the machine.































 Describe the Overall Condition of the Equipment as Received Dirty

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

inches

Na

Initial Mechanical/Electrical

6. Does Shaft Turn Freely?

Yes

7. Does the shaft require T.I.R in Lathe to identify additional repairs?

■ No

8. Does Shaft Have Visible Damage?

(Yes) Yes



	Assembled Shaft Runout	Inches
9.	Assembled Shart Runout	inches
-	Na	
10.	Assembled Shaft End Play	inches
-	Na	
11.	Air Gap Variation <10%	
-	Na	
12.	Lead Condition	(NA) Not Applicable
-	Rewind	
13.	Lead Length	8 Inches
14.	Does it have Lugs?, If so what is the Stud Size?	(No) No
15.	Lead Numbers	1-3

16. Stator Temperature Detector Rating and Function
Quantity Rating Quantity Passed

Na

17. Bearing Temperature Detector Rating and Function
Quantity Rating Quantity Passed

Na

18. Frame Condition pass

19. Fan Condition (F) Fail





20.	Heater Quantity, Ratings		
	Quantity	Volts/Watts	Pass/Fail
-	Na		
21.	Broken or Missing Components		fan
Initial	Electrical Inspection		
22.	Insulation Resistance/Megger		Megohms
-	Na		
23.	Winding Resistance		
	1-2	1-3	2-3
-	Na		



25.	Number of Stator Slots		36	
26.	Stator Condition		pass	
27.	Stator Thermistors/Ohms			
-	Na			
28.	Stator Overloads/Ohms		na	
Mecha	chanical Inspection			
29.	Drive End Bearing Brand		skf	
30.	Drive End Bearing Number-		3211	
31.	Drive End Bearing Qty.		1	
32.	Drive End Bearing Type		(Ball) Ball Bearing	
33.	Drive End Lubrication Type		(Grease) Grease Lubricated	
34.	Drive End Bearing Insulation or Groun	nding Device?		
-	Na			
35.	Drive End Wavy Washer/Snap-Ring O	Other Retention Device?		
-	Spanner nut			
36.	Drive End Bearing Condition normal signs of wear			
37.	Opposite Drive End Bearing Brand fag			
38.	Opposite Drive End Bearing Number- 6206			
39.	Opposite Drive End Bearing Qty. 1			
40.	Opposite Drive End Bearing Type (Ball) Ball Bearing			
41.	Opposite Drive End Lubrication Type (Grease) Grease Lubricated			
42.	Opposite Drive End Bearing Insulation	n or Grounding Device?		
-	Na			
43.	Opposite Drive End Wavy Washer/Sn	ap-Ring Other Retention Device?		
-	Na			
44.	Opposite Drive End Bearing Condition	า	normal signs of wear	
45.	-			
	Opposite Drive End Seal		na	
47.	DE Sleeve Bearing Inside Diameter			
	0 degrees	120 degrees	240 degrees	
-	Na			

48.	DE Sleeve Bearing Outside Diameter		
	0 degrees	120 degrees	240 degrees
-	Na		
49.	DE Sleeve Bearing Housing Inside Dia	ameter	
	0 degrees	120 degrees	240 degrees
-	Na		
50.	DE Sleeve Bearing to Housing Cleara	nce	
	0 degrees	120 degrees	240 degrees
-	Na		
51.	ODE Sleeve Bearing Inside Diameter		
	0 degrees	120 degrees	240 degrees
-	Na		
52.	ODE Sleeve Bearing Outside Diameter	er	
	0 degrees	120 degrees	240 degrees
-	Na		
53.	ODE Sleeve Bearing Housing Inside I	Diameter	
	0 degrees	120 degrees	240 degrees
	· ·	<u> </u>	•
-	Na		
54.	ODE Sleeve Bearing to Housing Clea		
	0 degrees	120 degrees	240 degrees
	Na		
-			
	Inspection Rotor Type/Material		(Squirrel Aluminum) Squirrel
55.	Kotor Type/Material		Cage Aluminum Die Cast
56.	Growler Test		(Pass) Pass
57.	Number of Rotor Bars		45
58.	Rotor Condition		needs cleaned
59.	List the Parts needed for the Repair B	elow	
	3211 6206		
	2 CR LIP SEALS -CR20070		
	Fan- 399408 Bushing		
60.	Signature of Technician that Disassen	nbled Motor	Cw
	Mon	e-	
	1 1000		
Mecha	anical Fits- Rotor		
61.	Shaft Runout		0.003 inches

	62.	Rotor Runout		
		Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
	-	Na		
	63.	Coupling Fit Closest to Bearing Housing	-	
		0 Degrees	90 Degrees	120 Degrees
		Na		
	,	Coupling Fit Closest to the end of the	Shaft	
	07.	0 Degrees	60 Degrees	120 Degrees
		o Degrees	oo begrees	120 Degrees
	-	Na		
	65.	Drive End Bearing Shaft Fit		
		0 Degrees	60 Degrees	120 Degrees
		2.1656	2.166	2.1658
	66.	Drive End Bearing Shaft Fit Condition		(P) Pass
	67.	Opposite Drive End Bearing Shaft Fit		
		0 Degrees	60 Degrees	120 Degrees
		1.1813	1.1813	1.1813
		Opposite Drive End Bearing Shaft Fit	Condition	(P) Pass
	69.	Shaft Air Seal Fits		
		Drive End Air Seal	Opposite Drive End Air Seal	
		Na		
M	echa	anical Fits- Bearing Housings		
		Drive End - Endbell Bearing Fit		
		0 Degrees	60 Degrees	120 Degrees
		3.9375	3.9376	3.9375
	71.	Drive End - Endbell Bearing Fit Condit	tion	(P) Pass
	72.	Opposite Drive End - Endbell Bearing	Fit	
		0 Degrees	60 Degrees	120 Degrees
		2.441	2.4411	2.4411
	73.	Opposite Drive End - Endbell Bearing	Fit Condition	(P) Pass

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74. Bearing Cap Condition

Drive End Bearing Cap

Opposite Drive End Bearing Cap

Pass



75. End Bell Air Seal Fits

Drive End Air Seal Opposite Drive End Air Seal

Na

76. List Machine Work Needed Below

Bushing and bushing fit on shaft and seal surfaces

77. Technician Cw

Root Cause of Failure

78. Failure locations

Windings single fazed

79. Root cause of failure

One leg lost power and over heated

Dynamic Balance Report

80. Rotor Weight and Balance Grade

Rotor Weight Balance Grade

81. Initial Balance Readings

Drive End Opposite Drive End

82. Final Balance Readings

Drive End Opposite Drive End

83. Technician

Rewind

84. Core Test Results - Watts loss per Pound

Pre-Burnout Post Burnout

85.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
86.	Post Rewind Electrical Test- Insulatio	n Resistance	Megohms
87.	Post Rewind Polarization Index		Polarization Index
88.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
	Post Rewind Surge Test		(Pass) Pass
90.	Post Rewind Hi-Pot		micro-amps
91.	Technician		
Mecha	anical Fits- Rotor - Post Repair		
92.	Shaft Runout Post Repair		inches
93.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
94.	Coupling Fit Closest to Bearing Housi	ng Post Repair	
	0 Degrees	90 Degrees	120 Degrees
95.	Coupling Fit Closest to the end of the	Shaft Post Repair	
	0 Degrees	60 Degrees	120 Degrees
96.	Drive End Bearing Shaft Fit Post Rep		_
	0 Degrees	60 Degrees	120 Degrees
07	Opposite Drive End Decrine Objet 51	Doot Donois	
97.	Opposite Drive End Bearing Shaft Fit	·	400 B
	0 Degrees	60 Degrees	120 Degrees

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99. Shaft Repair Sign-off

LU

Mechanical Fits- Bearing Housings - Post Repair

100. Drive End - Endbell Bearing Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees

101. Opposite Drive End - Endbell Bearing Fit Post Repair

0 Degrees 60 Degrees 120 Degrees

102. Bearing Cap Condition Post Repair

Drive End Bearing Cap Opposite Drive End Bearing Cap

103. End Bell Air Seal Fits Post Repair

Drive End Air Seal Opposite Drive End Air Seal

104.	DE Sleeve Bearing Inside ID Post Rep	pair		
	Measure 1	Measure 2	Measure 3	
105.	DE Sleeve Bearing Outside ID Post R	-		
	Measure 1	Measure 2	Measure 3	
400				
106.	DE Sleeve Bearing Inside OD Post Re			
	Measure 1	Measure 2	Measure 3	
107.	DE Sleeve Bearing Outside OD Post I	Repair		
	Measure 1	Measure 2	Measure 3	
108.	End Bell Repair Sign-off			
109.	ODE Sleeve Bearing Inside ID Post R	epair		
	Measure 1	Measure 2	Measure 3	
110.	ODE Sleeve Bearing Outside ID Post	•		
	Measure 1	Measure 2	Measure 3	
111	ODE Sleeve Bearing Inside OD Post I	Danair		
111.	•	•	Managema O	
	Measure 1	Measure 2	Measure 3	
112.	ODE Sleeve Bearing Outside OD Pos	t Repair		
	Measure 1	Measure 2	Measure 3	
Assen	Assembly			
113.	QC Check All Parts for Cleanliness Pr	ior to Assembly	R	RW
/	// 1 /			
(~ 11			

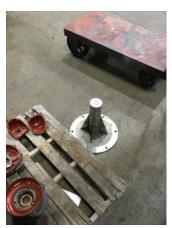
114. Photograph All Major Components prior to assembly

(Complete) Complete















115. Final Insulation Resistanc ### ### ############################	e Test		Megohms
116. Assembled Shaft Endplay			inches
117. Assembled Shaft Runout			inches
118. Test Run Voltage			
Volts	Volts	Volts	
457	455	457	
Co witness DM			





Co witness DM

119. Test Run Amperage		
Amps	Amps	Amps
3.8	3.7	3.8





Co witness DM



120. Drive End Vibration Readi). Drive End Vibration Readings - Inches Per Second			
Horizontal	Vertical	Axial		
0.05	0.05	0.03		

121	Opposite Drive End Vibration Reading	s - Inches Per Second			
121.	Horizontal	Vertical	Axial		
	0.05	0.05	0.04		
122	Ambient Temperature - Fahrenheit	0.03	0.04		
	Drive End Bearing Temps - Fahrenhei	.			
123.	- ·		45 Minutes		
	5 Minutes	10 Minutes	15 Minutes		
124.	. Drive End Bearing Temps - Fahrenheit 20-30 Minutes				
	20 Minutes	25 Minutes	30 Minutes		
125.	Drive End Bearing Temps - Fahrenhei	t 35-45 Minutes			
	35 Minutes	40 Minutes	45 Minutes		
126.	Drive End Bearing Temps - Fahrenhei	t 50-60 Minutes			
	50 Minutes	55 Minutes	60 Minutes		
407					
127.	Opposite Drive End Bearing Temps - I				
	5 Minutes	10 Minutes	15 Minutes		
128	Opposite Drive End Bearing Temps - I	Fahrenheit 20-30 Minutes			
120.	20 Minutes	25 Minutes	30 Minutes		
	20 Millates	23 Milliates	30 Milliates		
129.	Opposite Drive End Bearing Temps - I	Fahrenheit 35-45 Minutes			
	35 Minutes	40 Minutes	45 Minutes		
130.	Opposite Drive End Bearing Temps - I	Fahrenheit 50-60 Minutes			
	50 Minutes	55 Minutes	60 Minutes		
131.	Document Final Condition with Picture	s after paint			







132. Final Pics and QC Review

RW

Co witness DM



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

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AC Random Coil Rewind Report

Searcy Water and Sewer System (11242) 300 N. Elm Street

Searcy, AR 72145

Priorities Found:

Prioritie	s Found:
Gene	ral
1.	Job Number
2.	Report Date
3.	Customer
Stato	r Winding
4.	Core Length
5.	Core ID
6.	Back Iron Depth
7.	Slot Depth
8.	Tooth Width
9.	Number of Vents
10.	Vent Width
11.	Before Burnout Core loss
12.	Flux Before Burnout
13.	Watts before burnout
14.	Watts loss per lb. before burnout
15.	After Burnout Core Loss
16.	Flux After burnout
17.	Watts After Burnout
18.	Watts loss per lb After Burnout
19.	Core Iron Condition
20.	RTD's
21.	RTD's Reading
22.	Motor Heaters
23.	Heater Qty.
24.	Heater Voltage
25.	Heater Wattage
26.	Thermistors
27.	Number of Poles
28.	Slots
29.	Number of Coils
30.	Coil Weight
31.	Lead Markings
32.	· · ·
33.	•
34.	Wire Size

35.	Turns per coil
36.	Pitch 1 to:
37.	Connection
38.	Lead Length
39.	Lead Size
40.	Number of Leads
41.	Megger Reading After Rewind
42.	Coil Machine Slot
43.	Coil Machine Tip
44.	Coil Machine Pitch
45.	Hi Pot Reading After Rewind
46.	Surge Pattern After Rewind
47.	Service Technician



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