

# EVERY DAY SINCE 1946

**Motor Shop Repairs** 

# Job Number 97745

Prepared for ARKANSAS SIGN & NEON

8525 DISTRIBUTION DR LITTLE ROCK AR 72209

## Table of Contents

AC Recondition Repair Report



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

### **AC Recondition Repair Report**

#### **ARKANSAS SIGN & NEON**

8525 DISTRIBUTION DR LITTLE ROCK, AR 72209

#### Priorities Found: **15 - Good**

#### General

- 1. Job Number
- 2. Report Date
- 3. Customer

## Name Plate Information

4. Manufacturer









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#### ARKANSAS SIGN AND NEON













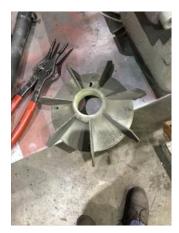


5.	Model	FF300
6.	Serial Number	005157
7.	Horsepower	30
8.	KW	
9.	Volts	220460
10.	Amps	
11.	RPM	3450
12.	Frame	FF300
13.	Enclosure	TEFC
14.	Cycles	60
15.	Phase	3 PH
16.	Service Factor	1.1
17.	Motor Mount Position	
Initial	Inspection	
18.	Number of Leads	6



19.	Lead Length
20.	Lead Size
21.	Lead Condition (P) Pass
22.	Lead Markings
23.	Lug Size, Condition, and Type
24.	Winding RTD's
25.	Winding Rtd's Condition

26.	Shaft Run Out	
27.	Does Shaft Turn Freely	yes
28.	Does Shaft Have Visible Damage	no
29.	Bearing Rtd's	
30.	Bearing Rtd's Condition	
31.	Contamination	
32.	Frame Condition	(P) Pass
33.	Fan Condition	(P) Pass



34.	Broken or missing components		
Initial	Initial Electric Test		
35.	Resistance to Ground	0 Mohm	
36.	Winding Resistance 1-2		
37.	Winding Resistance 2-3		
38.	Winding Resistance 1-3		
39.	Resistive Imbalance		
40.	Hi-Pot		
41.	Surge Test	(NA) Not Applicable	
	Rewind		
42.	Stator Condition	Rewind	



43. Failure Location Initial Rotor Inspection



cast aluminum



	45.	Air Gap <10% Variation	
	46.	Number of Rotor Bars	12
	47.	Number of Broken Rotor Bars	0
	48.	Growler Test	(P) Pass
	49.	Rotor Condition	(P) Pass
Me	echa	anical Inspection	
	50.	Bearing Manufacture	SKF NSK
	51.	Bearing DE Size	6308Z





52.	. Bearing DE Type	Ball	
53.	. DE Bearing Qty.	1	

#### 54. Bearing ODE Size





55. Bearing ODE Type	Ball
56. ODE Bearing Qty.	1
57. Insulated Bearing	no
58. Lubrication Type	grease



59. Grease Condition



60.	Bearing Retainers	(Y) Yes
61.	Shaft Grounding Device	(NA) Not Applicable
62.	DE Seal	(Y) Yes
63.	DE Seal Type/Size	

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(NA) Not Applicable

64. ODE Seal

65. ODE Seal Type/Size

**Root Cause of Failure** 

66. Component Failure

67. Cause of Failure

68. Comments

Winding shorted turn to turn



6	59.	Service Technician	RW
Ma	chi	ne Fit Inspection Report	
7	70.	Shaft Run Out	
7	71.	Initial Shaft Run Out	
7	72.	Final Shaft Run Out	
• 7	73.	DE Bearing Shaft Fit	(P) Pass
7	74.	DE Initial Shaft Bearing Fit Size 1	1.5736 "
7	75.	DE Initial Shaft Bearing Fit Size 2	1.5736 "
7	76.	DE Initial Shaft Bearing Fit Size 3	1.5736 "
7	77.	DE Finial Shaft Bearing Fit Size 1	
7	78.	DE Finial Shaft Bearing Fit Size 2	
7	79.	DE Finial Shaft Bearing Fit Size 3	
8	30.	ODE Bearing Shaft Fit	(P) Pass
8	31.	ODE Initial Shaft Bearing Fit Size 1	1.7718 "
8	32.	ODE Initial Shaft Bearing Fit Size 2	1.7718 "
8	33.	ODE Initial Shaft Bearing Fit Size 3	1.7718 "
8	34.	ODE Finial Shaft Bearing Fit Size 1	
8	35.	ODE Finial Shaft Bearing Fit Size 2	
8	36.	ODE Finial Shaft Bearing Fit Size 3	
8	37.	DE Air Seal Shaft Fit	(P) Pass
8	38.	DE Initial Air Seal Shaft Size	
8	39.	DE Final Air Seal Shaft Size	
9	90.	ODE Air Seal Shaft Fit	
9	91.	ODE Initial Air Seal Shaft Size	
9	92.	ODE Final Air Seal Shaft Size	

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#### **DE Bearing**



94.	DE Initial Endbell Fit Size 1	3.5435 "
95.	DE Initial Endbell Fit Size 2	3.5435 "
96.	DE Initial Endbell Fit Size 3	3.543 "
97.	DE Final Endbell Fit Size 1	
98.	DE Finial Endbell Fit Size 2	
99.	DE Final Endbell Fit Size 3	
100.	DE Endbell Fit Insulated	(NA) Not Applicable
101.	DE Endbell Air Seal Fit	
102.	Initial Endbell Air Seal Fit Size	
103.	Finial Endbell Air Seal Fit Size	
104.	ODE Endbell Fit	(P) Pass



105. ODE Initial Endbell Fit Size 1	3.3465 "
106. ODE Initial Endbell Fit Size 2	3.3465 "
107. ODE Initial Endbell Fit Size 3	3.3465 "
108. ODE Final Endbell Fit Size 1	
109. ODE Final Endbell Fit Size 2	
110. ODE Final Endbell Fit Size 3	
111. ODE Endbell Fit Insulated	(NA) Not Applicable
112. ODE Endbell Air Seal Fit	
113. ODE Initial Endbell Seal Fit Size	
114. ODE Finial Endbell Seal Fit Size	

115.	Foot Flatness	(P) Pass
116.	Foot Condition	(P) Pass
117.	Flange Condition	(P) Pass
	Service Technician	RW
Balan	cing Report	
	Balance Type	
	Balance Operating Speed	
121.	Start Left End	
122.	Start Right End	
123.	Balancing Specification	
124.	Finish Left End	
125.	Finish Right End	
126.	Service Technician	
Assen	nbly and Final Test	
127.	Meggar Testing Reading	
128.	Surge Test	
129.	Hi-Pot	
130.	Winding Resistance 1-2	
131.	Winding Resistance 2-3	
132.	Winding Resistance 1-3	
133.	Test Run Voltage Phase A	
134.	Test Run Amps A	
135.	Test Run Voltage Phase B	
136.	Test Run Amps B	
	Test Run Voltage Phase C	
	Test Run Amps C	
	DE Horizontal Vibration Reading	
	DE Vertical Vibration Reading	
	DE Axial Vibration Reading	
	ODE Horizontal Vibration Reading	
	ODE Vertical Vibration Reading	
	ODE Axial Vibration Reading	
	Ambient Temp at start of Test Run	
	Temp at 5 minutes	
	Temp at 10 minutes	
	Temp at 15 minutes	
	Temp at 20 minutes	
	Temp at 25 minutes	
	Temp at 30 minutes	
	Temp at 35 minutes	
	Temp at 40 minutes	
	Temp at 45 minutes	
	Temp at 50 minutes	
	Temp at 55 minutes	
	Temp at 60 minutes Motor Paint	
100.		

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- 5. DELIVERY OF GOODS AND/OR SERVICES. 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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- 11. <u>GOVERNING LAW AND JURISDICTION.</u> 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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