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

AC Recondition Repair Report

FolderID: 97861
FormID: 9985870

Allerga
5585 Canal Road
Valley View, OH 44125

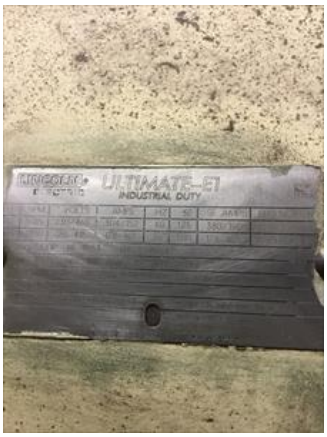
Priorities Found: **4 - High** **6 - Good**

General

1.	Job Number	**97861**	
2.	Report Date		
3.	Customer	**Allega**	

Name Plate Information

4.	Manufacturer	**Lincoln**	P5



5.	Model	**LM13936**
6.	Serial Number	**U3990308**
7.	Horsepower	**125**
8.	KW	
9.	Volts	**230,460 Volts**
10.	Amps	**304,152 Amps**
11.	RPM	**1785**
12.	Frame	**405T**
13.	Enclosure	**ODP**
14.	Cycles	**60**
15.	Phase	**3**

16.	Service Factor	**1.25**	
17.	Motor Mount Position	**F1**	

Initial Inspection

18.	Number of Leads		
19.	Lead Length		
20.	Lead Size		
21.	Lead Condition		
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		
29.	Bearing Rtd's		
30.	Bearing Rtd's Condition		
31.	Contamination		P104

32.	Frame Condition	**(P) Pass**	
33.	Fan Condition	**(NA) Not Applicable**	
34.	Broken or missing components		

Initial Electric Test

35.	Resistance to Ground		
36.	Winding Resistance 1-2		
37.	Winding Resistance 2-3		
38.	Winding Resistance 1-3		
39.	Resistive Imbalance		
40.	Hi-Pot		
41.	Surge Test	**(F) Fail**	
42.	Stator Condition	**good**	
43.	Failure Location		

Initial Rotor Inspection

44.	Rotor Type	**squirrel cage**	
45.	Air Gap <10% Variation		
46.	Number of Rotor Bars		
47.	Number of Broken Rotor Bars		
48.	Growler Test		

49.	Rotor Condition	**(P) Pass**	P50

Mechanical Inspection

50.	Bearing Manufacture	**nsk**	P1

51.	Bearing DE Size	**63152Z**	P15

	52.	Bearing DE Type	**regular ball bearing**	P23

	53.	DE Bearing Qty.	**1**	
	54.	Bearing ODE Size	**6313-2Z**	P43

	55.	Bearing ODE Type	**regular ball bearing**	
	56.	ODE Bearing Qty.	**1**	
	57.	Insulated Bearing	**no**	
	58.	Lubrication Type	**grease**	
	59.	Grease Condition	**(F) Fail**	P74

	60.	Bearing Retainers	**(Y) Yes**	P80

61. Shaft Grounding Device **(NA) Not Applicable**

62. DE Seal **(Y) Yes** P86

63. DE Seal Type/Size

64. ODE Seal

65. ODE Seal Type/Size

Root Cause of Failure

66. Component Failure **bearings**

67. Cause of Failure P14

Contaminated grease in bearings /windings show two phases shorted together from excessive debris inside stator. Both housing fits pitted.

68. Comments

69.	Service Technician	**Terrence Holland**	

Machine Fit Inspection Report

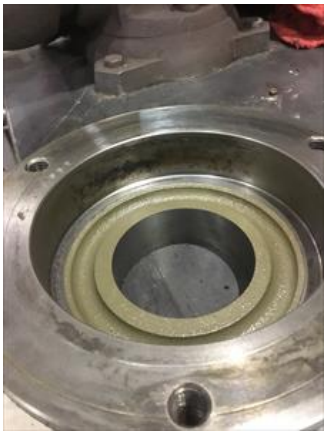
70.	Shaft Run Out		
71.	Initial Shaft Run Out		
72.	Final Shaft Run Out		
73.	DE Bearing Shaft Fit		
74.	DE Initial Shaft Bearing Fit Size 1	**2.9532 "**	
75.	DE Initial Shaft Bearing Fit Size 2	**2.9533 "**	
76.	DE Initial Shaft Bearing Fit Size 3	**2.9531 "**	
77.	DE Finial Shaft Bearing Fit Size 1		
78.	DE Finial Shaft Bearing Fit Size 2		
79.	DE Finial Shaft Bearing Fit Size 3		
80.	ODE Bearing Shaft Fit	**(P) Pass**	
81.	ODE Initial Shaft Bearing Fit Size 1	**2.5591 "**	
82.	ODE Initial Shaft Bearing Fit Size 2	**2.5592 "**	
83.	ODE Initial Shaft Bearing Fit Size 3	**2.5592 "**	
84.	ODE Finial Shaft Bearing Fit Size 1		
85.	ODE Finial Shaft Bearing Fit Size 2		
86.	ODE Finial Shaft Bearing Fit Size 3		
87.	DE Air Seal Shaft Fit		
88.	DE Initial Air Seal Shaft Size		
89.	DE Final Air Seal Shaft Size		
90.	ODE Air Seal Shaft Fit		
91.	ODE Initial Air Seal Shaft Size		
92.	ODE Final Air Seal Shaft Size	**"**	
93.	DE Endbell Fit	**(F) Fail**	P129

Housing fit pitted

94.	DE Initial Endbell Fit Size 1		
95.	DE Initial Endbell Fit Size 2		
96.	DE Initial Endbell Fit Size 3		

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	**(F) Fail**	P145

Housing fit pitted



105.	ODE Initial Endbell Fit Size 1		
106.	ODE Initial Endbell Fit Size 2		
107.	ODE Initial Endbell Fit Size 3		
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		
112.	ODE Endbell Air Seal Fit		
113.	ODE Initial Endbell Seal Fit Size		
114.	ODE Finial Endbell Seal Fit Size		
115.	Foot Flatness		
116.	Foot Condition		
117.	Flange Condition		
118.	Service Technician		

Balancing Report

119.	Balance Type		
120.	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		

Assembly 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
137.	Test Run Voltage Phase C
138.	Test Run Amps C
139.	DE Horizontal Vibration Reading
140.	DE Vertical Vibration Reading
141.	DE Axial Vibration Reading
142.	ODE Horizontal Vibration Reading
143.	ODE Vertical Vibration Reading
144.	ODE Axial Vibration Reading
145.	Ambient Temp at start of Test Run
146.	Temp at 5 minutes
147.	Temp at 10 minutes
148.	Temp at 15 minutes
149.	Temp at 20 minutes
150.	Temp at 25 minutes
151.	Temp at 30 minutes
152.	Temp at 35 minutes
153.	Temp at 40 minutes
154.	Temp at 45 minutes
155.	Temp at 50 minutes
156.	Temp at 55 minutes
157.	Temp at 60 minutes
158.	Motor Paint
159.	Service Technician