

Job Information

Job #: 96194

Date: November 8, 2019

Priority: —

Authorized OT: No

Authorized by:

Customer Information

Name: Industrial Maintenance Service

Reason:

Contact:

Motor#:

PO#:

Application: —

Special notes:

Name Plate Information

Manufacturer:

Enclosure : Open Drop Proof (ODP)

Enclosure Type image

Serial#:

Model#:

Service Factor:

Frame:

Horsepower/kW:

Rated RPM:



Armature

Volts

Amps

Fields

Volts

Amps

Nameplate

DE

ODE

F1

F2

Top



Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: Yes

Contaminant(s): Carbon

Shaft rotation: Bi-directional

Contaminant(s) Amt: Other

Shaft Condition: Good

Contaminant Image:

Shaft grounding device present?: No



Type of grounding device:

Shaft runout(TIR-Inbound):

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection



Lubrication Type: Grease

Thermal Protection device DE: —

Lubrication brand inbound: Unknown

Thermal Protection device ODE: —

Lubrication brand outbound: Unknown

Grease Amt DE: 1/4

Grease Cond. DE: Hard

Grease Amt ODE: 1/4

Grease Cond. ODE: Hard

Mechanical Inspection (Continued)

Brushholders

Number	2
Condition	Good
Size	
Spring type	

Brushes

Number	2
Size	
Shunt Len.	
Insulated	No
TermType	

Brg Image



Shaft Image



Brushing/sleeves



End bell



Water jacket: N/A



Fan: Broken



Frame cond.: Good



Motor Mount Position: Horizontal/Foot mount

Foot/Flange condition: Ok

Foot flatness: Pass

WEST TENNESSEE

7030 Ryburn Drive
Millington, TN 38053
Phone 901-873-5300
Fax 901-873-5301

CENTRAL ARKANSAS

6812 Lindsey Rd.
Little Rock, AR 72206
Phone 501-375-9178
Fax 501-375-4254



MILLINGTON, TN

LITTLE ROCK, AR

Mechanical Inspection (Continued)

Missing parts?

☐ J-Box cover☐ O-rings☐ J-Box☐ HH cover☐ Glands☒ None

Other missing parts

Air Gap Measurements (N/A on Single Piece Endbell)

Does Air Gap Meet Customer or EASA spec(<10% variation)?

DE @ 0

ODE @ 0

—

DE @ 90

ODE @ 90

DE @ 180

ODE @ 180

DE @ 270

ODE @ 270

Electrical Inspection

☐ Move armature imbalance to Assemble

Commutator: —

Winding Inspection

Meg Test IP to Flds: Good

Polarity Check IP to Flds: Yes

Meg Series to Shunt: Good

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DC Electrical Inspection

Brushes: Normal wear

Brush Image:



Brush holders: Salvageable Qty. 2

Insulators: Salvageable Qty. 2

Lead support stud: Salvageable Qty. 2

Alternate brush image:



Rocker ring: Salvageable Qty. 1

Commutator Type: Other

Commutator images

Commutator Hardness: Good

Commutator Condition : Grooved

Commutator Film: Ok



Armature type: Factory

If other

Armature images

Failure mode: Ok

If other

Failure location: Other

If other

Bearings

Armature condition: Solid

If other



Winding color: Still has color

DC Electrical Inspection (Continued)

Armature Test Results

Megs: Good Hi-pot: Good Core loss: Good

Armature image



Fields condition

Series/Stab condition: Ok

Fields condition image:



Shunts condition: Ok

InterCoils condition: Ok

Fields test results

Series/Stab Meg: Ok Hi Pot: Ok Resistance: Ok

Shunts Meg: Ok Hi Pot: Ok Resistance: Ok

InterCoils Meg: Ok Hi Pot: Ok Resistance: Ok

Thermistors: In use

Field Test image

RTD: In use At



Thermostat: Open

Leads/jumpers: Ok

Lead jumper Image:



Conclusion

Component Failure

Cause of Failure

Comments

Stator needs to be washed-baked-dipped-baked, ODE endbell is over sized, and the fan is broke. Recommend reconditioning, bakedand dipped and baked again, new bearings, new fan, and machine work on ODE endbell

Service Tech name: Chris Wiley

Service Tech
signature:

A handwritten signature in black ink, appearing to read 'Chris Wiley', written in a cursive style.