



MILLINGTON, TN

LITTLE ROCK, AR

## Job Information

Job #: 94827

Date: October 30, 2018

Priority: —

Authorized OT: No

Authorized by:

## Customer Information

Name: Cameron Valves

Reason:

Contact:

Motor#:

PO#:

Application: —

Special notes: Blower unit attached.

## Name Plate Information

Manufacturer: G.E.

Enclosure : Open Drop Proof (ODP)

Enclosure Type image

Serial#: Y-M-7-102-YM

Model#: 5CD204NA044A817

Service Factor:

Frame:

Horsepower/kW: 75

Rated RPM:



Armature

Volts 500

Amps 121

Fields

Volts 300150

Amps

Nameplate



DE



ODE



F1



F2



Top



**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

## Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: Yes

Contaminant(s): None

Shaft rotation: Bi-directional

Contaminant(s) Amt: None

Shaft Condition: Good

Contaminant Image:

Shaft grounding device present?: No



Type of grounding device: None

Shaft runout(TIR-Inbound):

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection



Not Available



Lubrication Type: Grease

Thermal Protection device DE: —

Lubrication brand inbound: Mobile Polyrex EM

Thermal Protection device ODE: —

Lubrication brand outbound: Mobile Polyrex EM

Grease Amt DE: Full

Grease Cond. DE: Gritty

Grease Amt ODE: Full

Grease Cond. ODE: Gritty

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## Mechanical Inspection (Continued)

Brushholders

- Number 8
- Condition Good
- Size
- Spring type

Brushes

- Number 8
- Size
- Shunt Len.
- Insulated No
- TermType

Brg Image



Shaft Image



Brushing/sleeves



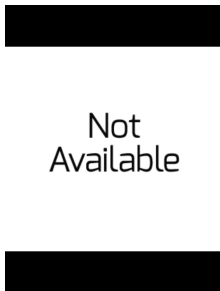
End bell



Water jacket: Ok

Fan: Ok

Frame cond.: Good



Motor Mount Position: Horizontal/Foot mount

Foot/Flange condition: Ok

Foot flatness: Pass



MILLINGTON, TN

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## 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: Salvageable

## 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: Other

Brush Image:



Brush holders: Salvageable Qty. 8

Insulators: Salvageable Qty.

Lead support stud: Salvageable Qty.

Alternate brush image:

Rocker ring: Salvageable Qty.



Commutator Type: Tig welded

Commutator images

Commutator Hardness: Good

Commutator Condition : Streaked

Commutator Film: Ok



Armature type: Factory If other

Failure mode: Ok If other

Failure location: Other If other None

Armature condition: Solid If other

Winding color: Still has color

Armature images



## DC Electrical Inspection (Continued)

### Armature Test Results

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

Armature image



### Fields condition

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Series/Stab condition:      Ok

Fields condition image:

Shunts condition:      Ok

InterCoils condition:      Ok



### Fields test results

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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:      None

Field Test image

RTD:      In use                      At



Thermostat:      Open

Not  
Available



Leads/jumpers:     Ok

Lead jumper Image:



## Conclusion

### Component Failure

Bearings, brushes oil soaked.

### Cause of Failure

Bearing grease contamination and excessive amount of carbon contamination from brushes. Also components were oil soaked as well.

### Comments

Service Tech name:     Terrence Holland

Service Tech  
signature:

