



MILLINGTON, TN

LITTLE ROCK, AR

## Job Information

Job #: 140531

Date: September 4, 2019

Priority: —

Authorized OT: No

Authorized by:

## Customer Information

Name: Hershey

Reason:

Contact:

Motor#: MTR-15

PO#:

Application: —

Special notes:

## Name Plate Information

Manufacturer: Baldor

Enclosure : Totally Enclosed  
Fan Cooled

Enclosure Type image

Serial#: B1110034122

Model#: GP7409

Service Factor:

Frame: EB

Horsepower/kW: .25

Rated RPM: 20



Armature

Volts 90

Amps 1.48

Fields

Volts 90

Amps 1.59

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?: No

Contaminant(s): None

Shaft rotation: —

Contaminant(s) Amt: None

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: Mobile Polyrex EM

Thermal Protection device ODE: —

Lubrication brand outbound: Mobile Polyrex EM

Grease Amt DE: Full

Grease Cond. DE: Watery

Grease Amt ODE: Full

Grease Cond. ODE: Charred

## Mechanical Inspection (Continued)

Brushholders

- Number
- Condition Good
- Size
- Spring type

Brushes

- Number 2
- Size
- Shunt Len.
- Insulated No
- TermType

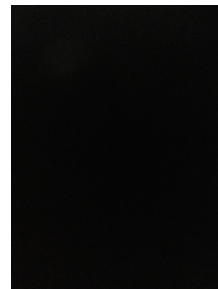
Brg Image



Shaft Image



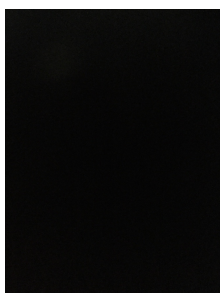
Brushing/sleeves



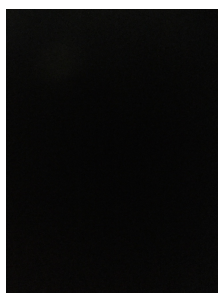
End bell



Water jacket: N/A



Fan: N/A



Frame cond.: Good



Motor Mount Position: Horizontal/Foot mount

Foot/Flange condition: Ok

Foot flatness: Pass

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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: Replace

## Winding Inspection

Meg Test IP to Flds: —

Polarity Check IP to Flds: —

Meg Series to Shunt: —

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## DC Electrical Inspection

Brushes: Normal wear

Brush Image:



Brush holders: Salvageable Qty. 2

Insulators: Salvageable Qty.

Lead support stud: Salvageable Qty.

Alternate brush image:



Rocker ring: Salvageable Qty.

Commutator Type: Soldered

Commutator images

Commutator Hardness: Bad

Commutator Condition : Replace

Commutator Film: Bad



Armature type: Factory If other

Failure mode: Other If other

Failure location: Front V ring If other

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:      In use

Field Test image

RTD:      In use

At

Thermostat:      Open



Leads/jumpers:     Ok

Lead jumper Image:



## Conclusion

### Component Failure

Commutator roasted.

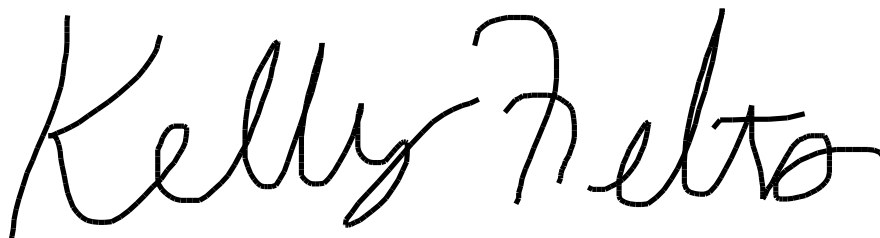
### Cause of Failure

Fluid in bearings.

### Comments

Service Tech name:     Kelly Felts

Service Tech  
signature:

A handwritten signature in black ink that reads 'Kelly Felts'.