

## Job Information

Job #: 96925

Date: June 11, 2020

Priority: —

Authorized OT: No

Authorized by:

## Customer Information

Name: Dillard's

Reason:

Contact:

Motor#:

PO#:

Application: —

Special notes:

## Name Plate Information

Manufacturer: Imperial

Enclosure : Open Drop Proof (ODP)

Enclosure Type image

Serial#: 513245

Model#:

Service Factor:

Frame: 368AZ

Horsepower/kW: 40

Rated RPM: 1150



Armature

Volts 240

Amps 140

Fields

Volts 170

Amps 3.0

Nameplate

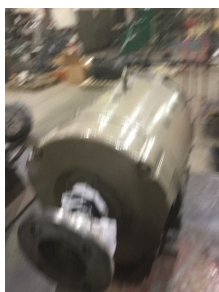
DE

ODE

F1

F2

Top



## 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: Damaged

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: N/A

Lubrication brand inbound: Unknown

Thermal Protection device ODE: N/A

Lubrication brand outbound: Unknown

Grease Amt DE: 0

Grease Cond. DE: Other

Grease Amt ODE: 0

Grease Cond. ODE: Other

### 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 (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



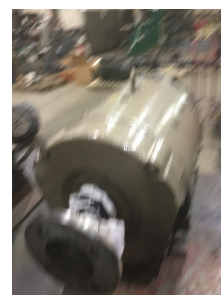
Water jacket: Ok



Fan: Ok



Frame cond.: Good



Motor Mount Position: Horizontal/Foot mount

Foot/Flange condition: Ok

Foot flatness: Pass



MILLINGTON, TN

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: 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: Normal wear

Brush Image:



Brush holders: Salvageable Qty. 8

Insulators: Salvageable Qty. 4

Lead support stud: Salvageable Qty. 4

Alternate brush image:



Rocker ring: Salvageable Qty. 1

Commutator Type: Soldered

Commutator images

Commutator Hardness: Good

Commutator Condition : Salvageable

Commutator Film: Ok



Armature type: Factory If other

Failure mode: Ok If other

Failure location: Front V ring If other

Armature condition: Solid If other

Winding color: Like new

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

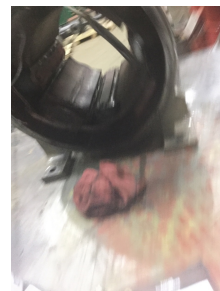
RTD: None      At

Thermostat: None



Leads/jumpers: Ok

Lead jumper Image:



## Conclusion

### Component Failure

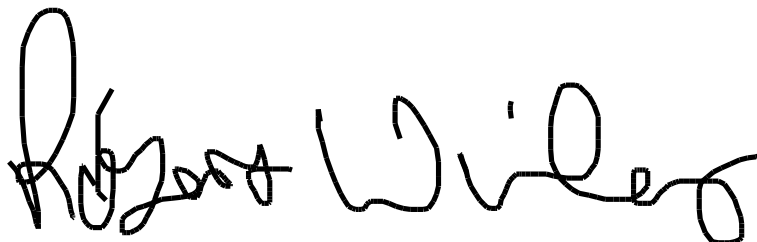
### Cause of Failure

### Comments

De bearing fit bad Ode bearing fit bad and ode bearing fit bad on shaft

Service Tech name: Robert Wiley

Service Tech  
signature:

A handwritten signature in black ink that reads 'Robert Wiley'.