

## Job Information

Job #: 140451

Date: August 20, 2019

Priority: —

Authorized OT: No

Authorized by:

## Customer Information

Name: Insituform

Reason:

Contact:

Motor#:

PO#:

Application: —

Special notes:

## Name Plate Information

Manufacturer: Leroy somer

Enclosure : Open Drop Proof (ODP)

Enclosure Type image

Serial#: 655464/1

Model#:

Service Factor:

Frame:

Horsepower/kW: 42.7 kw

Rated RPM: 2820



Armature

Volts 400

Amps 119

Fields

Volts 190

Amps 2.48

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:

Shaft runout(TIR-Inbound):

Bearing Type Image

Bearing Make Image

Bearing Retainer Image

Thermal Protection



Lubrication Type: Grease

Thermal Protection device DE:

Thermal Overloads

Lubrication brand inbound: Mobile Polyrex EM

Thermal Protection device ODE:

Thermal Overloads

Lubrication brand outbound: Mobile Polyrex EM

Grease Amt DE: 0

Grease Cond. DE: Charred

Grease Amt ODE: 0

Grease Cond. ODE: Charred

## Mechanical Inspection (Continued)

Brushholders	Number	4
	Condition	Good
	Size	7/16x1 9/16
	Spring type	Flat

Brushes	Number	8
	Size	7/16x3/4x1 1/8
	Shunt Len.	2 3/4
	Insulated	Yes
	TermType	Open lug

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





## DC Electrical Inspection

Brushes: Normal wear

Brush Image:



Brush holders: Salvageable Qty. 4

Insulators: Salvageable Qty. 8

Lead support stud: Salvageable Qty. 4

Alternate brush image:



Rocker ring: Salvageable Qty.

Commutator Type: Soldered

Commutator images

Commutator Hardness: Good

Commutator Condition : Salvageable

Commutator Film: Ok



Armature type: Other

If other HSIS

Armature images

Failure mode: Ground

If other

Failure location: In slot

If other

Armature condition: Charred

If other

Winding color: Dull black



## DC Electrical Inspection (Continued)

### Armature Test Results

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

Armature image



### Fields condition

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Series/Stab condition:      Ok

Fields condition image:

Shunts condition:      Grounded frame

InterCoils condition:      Grounded frame



### Fields test results

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

Shunts      Meg:      Bad                      Hi Pot:      Bad                      Resistance:      Bad

InterCoils      Meg:      Bad                      Hi Pot:      Bad                      Resistance:      Bad

Thermistors:      None

Field Test image

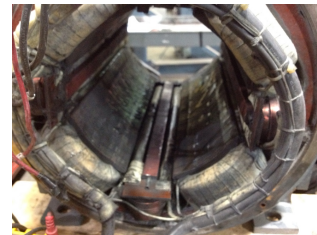
RTD:      Taped off                      At

Thermostat:      None



Leads/jumpers:     Ok

Lead jumper Image:



## Conclusion

### Component Failure

Armature and interpole grounded

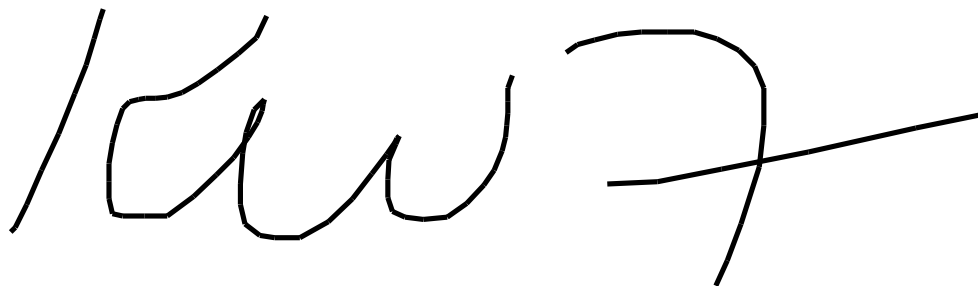
### Cause of Failure

Appears to have been overloaded causing the armature and INTERPOL's to roast and go to ground

### Comments

Service Tech name:     Kev f

Service Tech  
signature:

A handwritten signature in black ink, appearing to be 'Kev f', written in a cursive style.