

## Job Information

Job #: 95570

Date: May 16, 2019

Priority: —

Authorized OT: No

Authorized by:

## Customer Information

Name: Fiberglass systems

Reason:

Contact:

Motor#:

PO#:

Application: —

Special notes:

## Name Plate Information

Manufacturer: Allen Bradley

Enclosure : Explosion-proof enclosures (EXPL/

Enclosure Type image

Serial#:

Model#: 6fmq46001f1

Service Factor: 1.0

Frame: Xc0257aty

Horsepower/kW: 7.5

Rated RPM: 1750/1950



Armature

Volts 500

Amps 13.00

Fields

Volts 300

Amps 1.21

Nameplate

DE

ODE

F1

F2

Top



## Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: Yes

Contaminant(s): Grease

Shaft rotation: Bi-directional

Contaminant(s) Amt: Full

Shaft Condition: Good

Contaminant Image:

Shaft grounding device present?: No



Type of grounding device:

Shaft runout(TIR-Inbound): 0.0005

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection



Lubrication Type: Grease

Thermal Protection device DE: Good

Lubrication brand inbound: Mobile Polyrex EM

Thermal Protection device ODE: —

Lubrication brand outbound: Mobile Polyrex EM

Grease Amt DE: Full

Grease Cond. DE: Charred

Grease Amt ODE: Full

Grease Cond. ODE: Charred

### 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	4
Condition	Good
Size	
Spring type	Spring

Brushes

Number	4
Size	
Shunt Len.	2 inches
Insulated	No
TermType	

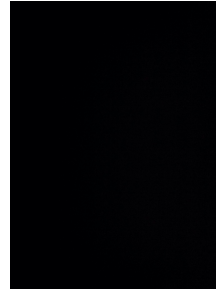
Brg Image



Shaft Image



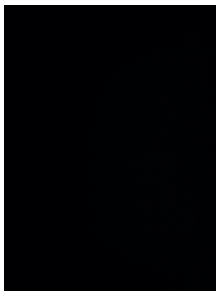
Brushing/sleeves



End bell



Water jacket: N/A



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:    —

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## DC Electrical Inspection

Brushes: Normal wear

Brush Image:



Brush holders: Salvageable Qty. 4

Insulators: Salvageable Qty.

Lead support stud: Salvageable Qty.

Alternate brush image:



Rocker ring: Salvageable Qty.

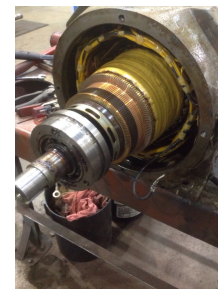
Commutator Type: Soldered

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

Armature condition: Solid If other

Winding color: Like new

Armature images



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## DC Electrical Inspection (Continued)

### Armature Test Results

Armature image



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

### 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: None

Field Test image

RTD: None At



Thermostat: Closed

Leads/jumpers:     Ok

Lead jumper Image:



## Conclusion

### Component Failure

Bearings

### Cause of Failure

Current in Bearings

### Comments

Service Tech name:     Trevor Hall

Service Tech  
signature:

A handwritten signature in black ink, appearing to be 'Trevor Hall', written over a white background.