

Job Information

Job #: 94360

Date: June 7, 2018

Priority: —

Authorized OT: No

Authorized by:

Customer Information

Name: Bryce

Reason:

Contact:

Motor#:

PO#:

Application: —

Special notes:

Name Plate Information

Manufacturer: Lenses

Enclosure : Open Drop Proof (ODP)

Enclosure Type image

Serial#: D-131855

Model#: RO#59147

Service Factor:

Frame: 328AT

Horsepower/kW: 10.7

Rated RPM: 1750



Armature

Volts 500

Amps 105

Fields

Volts 300

Amps 1.9

Nameplate

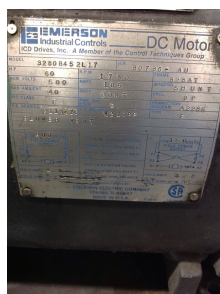
DE

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: Good

Contaminant Image:

Shaft grounding device present?: No

Type of grounding device:

Shaft runout(TIR-Inbound): .001



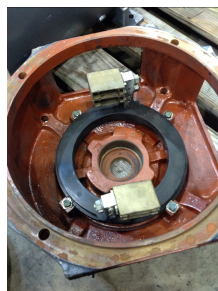
Bearing Type Image



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: N/A

Grease Cond. DE: Other

Grease Amt ODE: N/A

Grease Cond. ODE: Other

Mechanical Inspection (Continued)

Brushholders

Number	1
Condition	Good
Size	
Spring type	

Brushes

Number	4
Size	T566
Shunt Len.	3.125
Insulated	No
TermType	S

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: Replace

Winding Inspection

Meg Test IP to Flds: Good

Polarity Check IP to Flds: Yes

Meg Series to Shunt: —

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

DC Electrical Inspection

Brushes: Normal wear

Brush Image:



Brush holders: Salvageable Qty.

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 : Grooved

Commutator Film: Black



Armature type: Factory If other

Failure mode: Ground If other

Failure location: Commutator If other

Armature condition: Solid If other

Winding color: Dull black

Armature images



DC Electrical Inspection (Continued)

Armature Test Results

Armature image

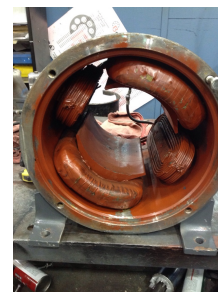


Megs: Bad Hi-pot: Bad Core loss: Good

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

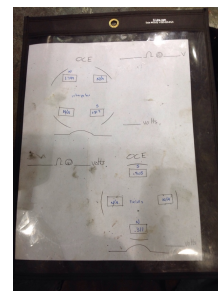
Shunts Meg: Ok Hi Pot: Ok Resistance: Ok

InterCoils Meg: Ok Hi Pot: Ok Resistance: Ok

Thermistors: None

Field Test image

RTD: In use At



Thermostat: Open

Leads/jumpers: Ok

Lead jumper Image:



Conclusion

Component Failure

Armature windings got hot enough to burn winding strings.

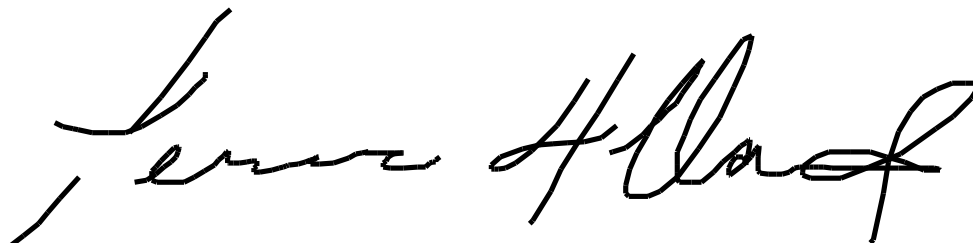
Cause of Failure

Brushes wore grooves into commutator

Comments

Service Tech name: Terrence Holland

Service Tech
signature:

A handwritten signature in black ink, reading 'Terrence Holland'.