

Job Information

Job #: 143162

Date: August 17, 2020

Priority: 3

Authorized OT: No

Authorized by: Terry f

Customer Information

Name: Container components

Reason:

Contact:

Motor#:

PO#:

Application: Direct Drive

Special notes:

Name Plate Information

Manufacturer: Ge

Enclosure : Open Drop Proof (ODP)

Enclosure Type image

Serial#: 5cd223sa0478043

Model#: Cd506at

Service Factor:

Frame: 506at

Horsepower/kW: 300

Rated RPM: 1750/1900



Armature

Volts 500

Amps 475

Fields

Volts 300

Amps 5

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): Grease

Shaft rotation: Bi-directional

Contaminant(s) Amt: Full

Shaft Condition: Other

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: Unknown

Thermal Protection device ODE: Good

Lubrication brand outbound: Unknown

Grease Amt DE: Full

Grease Cond. DE: Hard

Grease Amt ODE: Full

Grease Cond. ODE: Hard

Mechanical Inspection (Continued)

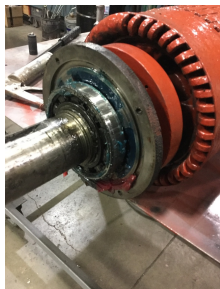
Brushholders

Number	12
Condition	Good
Size	
Spring type	

Brushes

Number	1048
Size	
Shunt Len.	3 inched
Insulated	No
TermType	

Brg Image



Shaft Image



Brushing/sleeves



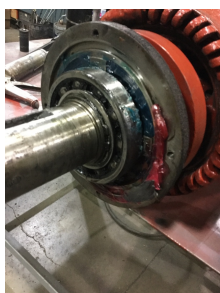
End bell



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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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. 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 : Grooved

Commutator Film: Smutty



Armature type: Factory If other

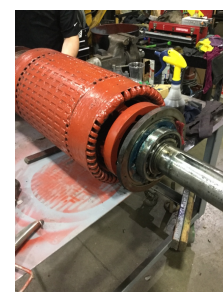
Failure mode: Ok If other

Failure location: Other If other

Armature condition: Solid If other

Winding color: Still has color

Armature images



DC Electrical Inspection (Continued)

Armature Test Results

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

Armature image



Fields condition

Series/Stab condition: Other

Fields condition image:

Shunts condition: Shorted turn-turn

InterCoils condition: Ok



Fields test results

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

Shunts Meg: Bad Hi Pot: Bad Resistance: Bad

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

Fields and bearings

Cause of Failure

Comments

Two different kinds of grease found in motor

On the drop test of the dc motor we found the field to be bad at 150 volts f1 70, f2 31, f3 27 and f 4 24

On INTERPOL's voltage drop shown at 24 volts I 1 4 v i2 4v i3 4v and i4 was 4v

Armature test - on the armature test meg ohms reading infinity (good)

On the armature bar to bar test with the electrom showed ok and pass all around the commutator. (Good)

Service Tech name: Terry f

Service Tech
signature:

