

Job Information

Job #: 142346

Date: April 23, 2020

Priority: —

Authorized OT: No

Authorized by:

Customer Information

Name: Nucor

Reason:

Contact:

Motor#: 142346

PO#:

Application: —

Special notes:

Name Plate Information

Manufacturer: Toshiba

Enclosure : Open Drop Proof
(ODP)

Enclosure Type image

Serial#: 8716465

Model#:

Service Factor:

Frame:

Horsepower/kW: 52kw

Rated RPM: 550



Armature

Volts 200

Amps

Fields

Volts 230

Amps

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: —

Contaminant(s) Amt: None

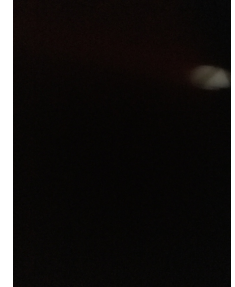
Shaft Condition: Good

Contaminant Image:

Shaft grounding device
present?: No

Type of grounding device:

Shaft runout(TIR-Inbound):



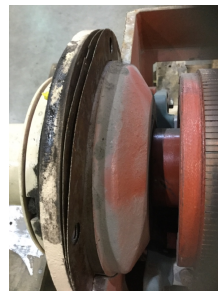
Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection



Lubrication Type: Grease

Thermal Protection device DE: —

Lubrication brand inbound: Mobile Polyrex EM

Thermal Protection device ODE: —

Lubrication brand outbound: Mobile Polyrex EM

Grease Amt DE: Full

Grease Cond. DE: New

Grease Amt ODE: Full

Grease Cond. ODE: New

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Mechanical Inspection (Continued)

Brushholders

Number	6
Condition	Salvageable
Size	
Spring type	

Brushes

Number	8
Size	
Shunt Len.	
Insulated	No
TermType	

Brg Image



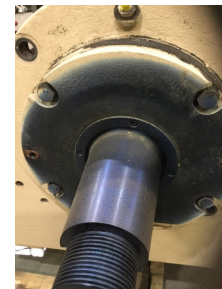
Shaft Image



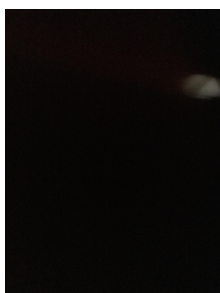
Brushing/sleeves



End bell



Water jacket: Ok



Fan: Ok



Frame cond.: Good



Motor Mount Position: Horizontal/Foot mount

Foot/Flange condition: Ok

Foot flatness: Pass



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Mechanical Inspection (Continued)

Missing parts?

☒ J-Box cover

☐ O-rings

☒ J-Box

☐ HH cover

☐ Glands

☐ None

Other missing parts

Brush holder

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: —

Polarity Check IP to Flds: —

Meg Series to Shunt: —

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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.

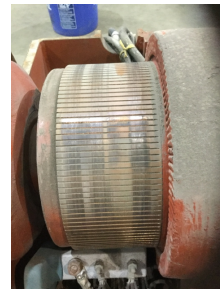
Commutator Type: Tig welded

Commutator images

Commutator Hardness: Good

Commutator Condition : Oil soaked

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: Still has color

Armature images



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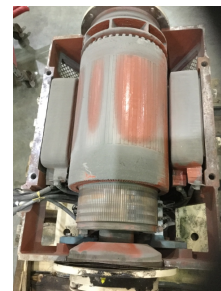
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DC Electrical Inspection (Continued)

Armature Test Results

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

Armature image



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: In use

Field Test image

RTD: In use

At

Thermostat: Open





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Leads/jumpers: Ok

Lead jumper Image:



Conclusion

Component Failure

None

Cause of Failure

None

Comments

Missing brush holder and two j- box covers need to pull armature out of the case to be clean shunts and inside case .

Service Tech name: Jesus

Service Tech
signature:

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