

Job Information

Job #: 94825

Date: October 18, 2018

Priority: —

Authorized OT: No

Authorized by:

Customer Information

Name: Flake Board

Reason:

Contact:

Motor#:

PO#:

Application: —

Special notes:

Name Plate Information

Manufacturer: Reliance

Enclosure : Open Drop Proof (ODP)

Enclosure Type image

Serial#:

Model#: 6632564

Service Factor:

Frame:

Horsepower/kW: 40

Rated RPM: 1750



Armature

Volts 240

Amps 139

Fields

Volts 240

Amps 5.17

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: —

Contaminant Image:

Shaft grounding device present?: No

Not Available

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: N/A

Lubrication brand inbound: Mobile Polyrex EM

Thermal Protection device ODE: N/A

Lubrication brand outbound: Mobile Polyrex EM

Grease Amt DE: Full

Grease Cond. DE: Hard

Grease Amt ODE: Full

Grease Cond. ODE: Hard

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 8
- Condition Good
- Size
- Spring type

Brushes

- Number 8
- Size
- Shunt Len.
- 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. 8

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

Armature images

Failure mode: Ok If other

Failure location: Other If other

Armature condition: Solid If other

Winding color: Like new



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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

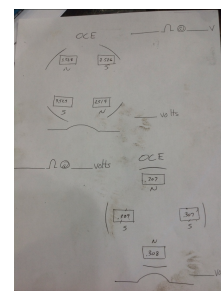
Shunts Meg: Ok Hi Pot: Ok Resistance: Ok

InterCoils Meg: Ok Hi Pot: Ok Resistance: Ok

Thermistors: In use

Field Test image

RTD: In use At



Thermostat: Open



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Leads/jumpers: Ok

Lead jumper Image:



Not
Available



Conclusion

Component Failure

DE AND ODE SHAFT AND KEY WAY

Cause of Failure

Found Frosting on Both BEARINGS

Comments

Wash and bake new brushes Ageis ring ceramic bearing repair DE ODE SHAFTS AND KeyWAYS

Service Tech name: Robert Wiley

Service Tech
signature:

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