

Job Information

Job #: 140847 Date: October 7, 2019

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: Runyun Reason:

Contact: Motor#: 140847 PO#:

Application: – Special notes:

Name Plate Information

Serial#:

Manufacturer: Nidec Enclosure: Totally Enclosed Enclosure Type image

Fan Cooled

Z097698821-0033M Model#: GB02

003

Service Factor: 1.15 Frame: 256T

Horsepower/kW: 20 Rated RPM: 3535

Rated Amps: 46/23 Rated Voltage: 230/460

Phase: 3 Cycles: 60

Special design: No

Nameplate DE ODE F1 F2 Top















Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: Yes Contaminant(s): Water

Shaft rotation: Bi-directional Contaminant(s) Amt: Other

Shaft grounding device

present?: Contaminant Image:

Type of grounding device:

Shaft runout(TIR-Inbound):

Bearings DE: Worn Bearings DE make: FAG

Insulated: No Bearing DE Size:

Bearings ODE: Worn Bearings ODE make: FAG

Bearing Type: Ball Bearing ODE Size:

Bearings Retainer: No Thermal Protection: Yes

Retainer condition: — Thermal Protection Type: —

Bearing Type Image



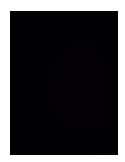
Bearing Make Image



Bearing Retainer Image



Thermal Protection





Mechanical Inspection (Continued)

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: 1/4 Grease Cond. DE: Watery

Grease Amt ODE: 1/4 Grease Cond. ODE: Watery

Seals DE type: Seals Image: N/A

Seals DE size:

Seals DE (inbound) condition:

Seals Image 2: Seals ODE type: N/A

Seals ODE size:

Seals ODE (inbound) condition

Shaft damage cause: Shaft Image: None

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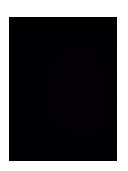


Mechanical Inspection (Continued)





Bushings/sleeves image:



Water jacket:

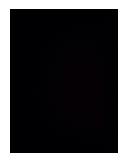
N/A



Ok

Frame cond.:

Good



Fan:



Motor Mount Position:

Horizontal/Foot mount

Endbell type:

Endbell Image:

Single piece

Missing parts?

☐ J-Box cover

O-rings

☐ J-Box

☐ HH cover

Glands

☐ None

Other missing parts





Mechanical Inspection (Continued)

Air Gap Meaurements (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

AC Electrical Inspection

Number of leads: — Terminal Markings:

Length of leads:

REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal

Markings Identified By Color:

Size of leads: 1-Blue 5-Black P1-No color assigned

2-White 6-No color assigned P2-Brown

3-Orange 7-No color assigned

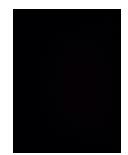
Lead condition: — 4-Yellow 8-Red

Connections As Received: Lug type:

Lug Condition: — Terminal Lugs

Lug size:

Lug Attachment: —



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Failure Image:



AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor Condition: Ok

Num rotor bars:

Num broken bars:

Rotor



Rotor Test Results

Stator Image:

Visual: Pass Growler: Pass Single phase: Pass

Stator type: Factory If other, stator type:

Stator condition: Ok If other, stator condition:

Failure location: Other If other, stator failure:







AC Electrical Inspection (Continued)

Winding color: Like new

Winding image

Winding Thermal Protection:

No

Winding condition:

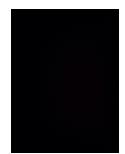
Solid

Winding Thermal

Protection DE:

Winding Thermal Protection ODE:

Stator test results: Salvageable



Megs incoming:

Good

Surge incoming:

Good

Hi-pot incoming:

Good

Winding Resistance Incoming

Phases A to B

Phases B to C

Phases C to A

Resistive imbalance

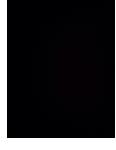
Incoming

Leads/jumpers:

If other, leads/jumpers:

Ok

Lead jumper Image.:



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CENTRAL ARKANSAS 6812 Lindsey Rd. Little Rock, AR 72206 Phone 501-375-9178 fax 501-375-4254



Conclusion

Component Failure
Bearings
Cause of Failure
Water and dirt buildup caused bearing failure
Comments
Service Tech name: Stone Hubbard
Service Tech signature: