

Job Information

97052 Job #: Date: July 10, 2020

Priority: Authorized OT: No Authorized by:

Customer Information

Name: All steel construction Reason:

Contact: Motor#: PO#:

Application: Special notes:

Name Plate Information

Manufacturer: CM Enclosure: Totally Enclosed **Enclosure Type image**

Fan Cooled

Serial#: 17172099 Model#: 33327303

Service Factor: Frame:

Horsepower/kW: 5.6/1.4kw Rated RPM: 3370/800

Rated Amps: 11.05/5.3 Rated Voltage: 460

Phase: 3 Cycles: 60

Special design:

No

Nameplate DE ODE F1 F2 Top







Fax 901-873-5301



Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: No Contaminant(s): None

Shaft rotation: Bi-directional Contaminant(s) Amt: None

Shaft grounding device

present?:

No

Type of grounding device:

Shaft runout(TIR-Inbound):

Bearings DE: Worn Bearings DE make: NSK

Insulated: No Bearing DE Size: 6009 DU

Bearings ODE: Worn Bearings ODE make: NSK

Bearing Type: Ball Bearing ODE Size: 6306 DU

Bearings Retainer: Yes Thermal Protection: No

Retainer condition: — Thermal Protection Type: —

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: 0 Grease Cond. DE: Other

Grease Amt ODE: 0 Grease Cond. ODE: New

Seals DE type: Slinger Seals Image:

Seals DE size:

Seals Image 2:

Seals ODE size:

Seals ODE type:

Seals ODE (inbound) condition

Seals DE (inbound) condition:

Shaft damage cause: None

Shaft Image:



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Slinger



Brg. Image:



Water jacket: N/A

Fan: Ok

<

Frame cond.:

Good



Motor Mount Position: Horizontal/Foot mount Endbell type: Single piece

Missing parts? Endbell Image:

☐ J-Box cover ☐ O-rings ☐ J-Box

☐ HH cover ☐ Glands ☐ None

Other missing parts







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: 6 Terminal Markings:

REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal Length of leads: 6"

Markings Identified By Color:

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

P2-Brown 2-White 6-No color assigned

3-Orange 7-No color assigned

4-Yellow 8-Red Lead condition: Good

Connections As Received: 1,2,3, 11,12,13 Lug type:

Lug Condition: Good Terminal

Lug size:

Lug Attachment: Acceptable









AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor Condition: Ok

Num rotor bars:

Num broken bars:

Rotor



Rotor Test Results

Visual: Pass Growler: Pass Single phase: Pass

Stator type: Factory If other, stator type:

Stator condition: Ok If other, stator condition:

Failure location: In slot If other, stator failure:

Stator Image: Failure Image:







AC Electrical Inspection (Continued)

Winding color: Like new Winding image Winding Thermal Protection: Yes

Winding condition: Solid

Winding Thermal Protection DE:

Winding Thermal Protection ODE:

Stator test results: Rewind

Megs incoming: Surge incoming: Hi-pot incoming: Good Good Good

Winding Resistance Incoming

Phases A to B Phases B to C Phases C to A Resistive imbalance

Incoming

Leads/jumpers: Ok

If other, leads/jumpers:

Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition: Bearings Retainer: Good Yes

Type of grounding device: Bearing DE Size: None 6009 DU

Shaft runout(TIR-Inbound): Bearing ODE Size: 6306 DU

Retainer condition:



Seals DE condition: Other Brg. Seats DE: Good

Seals DE type: Slinger If DE undersized, amt.:

Seals DE size: Brg. Seats ODE: Good

Seals DE (inbound) condition: If ODE undersized, amt.:

Seals ODE condition: None Shaft damage: OK

Seals ODE type: N/A

Seals ODE size:

Bushings/sleeves DE: Ok

Seals ODE (inbound) condition : Bushings/sleeves ODE: Ok

Endbell fits/damage: Good Foot/Flange condition: Ok

Endbell DE size: 2.9520 Foot flatness: N/A

Endbell DE insulated?: No

Does Air Gap Meet Customer or EASA spec(<10%

variation)?

Endbell ODE insulated?: No

Endbell ODE size:

2.8351



Conclusion

Component Failure

Windings strings burnt.

Cause of Failure

Windings got excessively hot.

Comments

Although the motor passed the electrical tests upon disassembly several winding strings were burnt through from the coils getting excessively hot and may require a rewind. The brake assembly ohms checked good and checked good on the electrical panel @ 24V.

Termer Holland

Service Tech name: Terrence Holland

Service Tech signature: