

### **Job Information**

Job #: 94890 Date: December 9,

2018

Priority: — Authorized OT: No Authorized by:

# **Customer Information**

Name: Remington Reason:

Contact: Motor#: PO#:

Application: – Special notes:

## **Name Plate Information**

Manufacturer: Lincoln Enclosure: Totally Enclosed Enclosure Type image

Fan Cooled

Serial#: U3960400850 Model#: TF4581C

Service Factor: 1.15 Frame: 286T

Horsepower/kW: 30 Rated RPM: 1760

Rated Amps: 74/37 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?: No Contaminant(s): None

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

Shaft grounding device

present?:

Type of grounding device:

Shaft runout(TIR-Inbound):

Bearings DE: Worn Bearings DE make: Koyo

Insulated: No Bearing DE Size: 6310

Bearings ODE: Worn Bearings ODE make: Koyo

Bearing Type: Ball Bearing ODE Size: 6209

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: New

Grease Amt ODE: 0 Grease Cond. ODE: New

Seals DE type: N/A

Seals DE size:

Seals DE (inbound) condition:

Seals ODE type: N/A

Seals ODE size:

Seals ODE (inbound) condition

:

Shaft damage cause: Other Shaft Image:





Brg. Image:



Bushings/sleeves image:

Not Available

Water jacket:

Ok

Broken

Frame cond.:

Good

Not Available



Fan:

Endbell Image:



Motor Mount Position:

Horizontal/Foot mount

Endbell type:

Single piece

Missing parts?

☐ 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: 12 Terminal Markings: 1-12

Length of leads: 12" 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: Good 4-Yellow 8-Red

Connections As Received: High voltage Lug type:

Lug Condition: — Terminal Lugs

Not Not

Lug Attachment: — Available Available

Lug size:



# **AC Electrical Inspection (Continued)**

Rotor Type: Cast Aluminum

Ok

Num rotor bars:

44

Num broken bars:

Rotor



#### **Rotor Test Results**

**Rotor Condition:** 

Visual: Pass Growler: Pass Single phase: Pass

Stator type: Other If other, stator type:

Stator condition: Ok If other, stator condition:

Failure location: Other If other, stator failure:

Stator Image: Failure Image:







# **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: Rewind

Not Available

Megs incoming: Bad Surge incoming: Bad Hi-pot incoming: Bad

**Winding Resistance Incoming** 

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

Incoming 0.00 0.00 0.00 0.00

Leads/jumpers: Ok Lead jumper Image. :

If other, leads/jumpers:

# **Mechanical Inspection**

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition: Damaged Bearings Retainer: Yes

Type of grounding device: Bearing DE Size: 6310

Shaft runout(TIR-Inbound): Bearing ODE Size: 6209

Retainer condition: —

Fax 901-873-5301



Seals DE condition : None Brg. Seats DE: Undersized

Seals DE type: N/A 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: Salvageable

Seals ODE type: N/A

Seals ODE size:

Bushings/sleeves DE: Other

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

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

Endbell DE size: 4.3519 Foot flatness: Pass

Endbell DE insulated?: No

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

variation)?

Endbell ODE insulated?: No

Endbell ODE size:

3.3482



## Conclusion

#### **Component Failure**

Bearings failure due to lack of lubricant

**Cause of Failure** 

#### **Comments**

DE AND ODE Bearing HOUSING FITS BAD SHAFT DRUG BEARING CAPS AND END BELLS

Service Tech name: Robert Wiley

Service Tech signature: