

### **Job Information**

Job #: 95445 Date: April 9, 2019

Priority: — Authorized OT: No Authorized by:

### **Customer Information**

Name: Sage Reason:

Contact: Motor#: PO#:

Application: – Special notes:

### **Name Plate Information**

Manufacturer: BALDOR Enclosure: Totally Enclosed Enclosure Type image

Fan Cooled
Serial#: C1611080522 Model#: 12h775y276g1

Service Factor: 1.15 Frame: 324TCZ

Horsepower/kW: 40 Rated RPM: 1775

Rated Amps: 96/48 Rated Voltage: 230/460

Phase: 3 Cycles: 60

Yes

Nameplate DE ODE F1 F2 Top



Special design:











WEST TENNESSEE



## **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 grounding device

present?:

Type of grounding device:

Shaft runout(TIR-Inbound): .2500

Bearings DE: Worn Bearings DE make: FAG

Insulated: No Bearing DE Size: 6312 2rsr C3

Bearings ODE: Worn Bearings ODE make: FAG

Bearing Type: Ball Bearing ODE Size: 6311 2rsr C3

Bearings Retainer: Yes Thermal Protection: No

Retainer condition: Good Thermal Protection Type: —

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: Charred

Grease Amt ODE: Full Grease Cond. ODE: Charred

Seals DE type: Labyrinth Seals Image:

Seals DE size: 2.250

Seals DE (inbound) condition: Worn

Seals ODE type:

Seals Image 2:

Seals ODE size: 2.049

Seals ODE (inbound) condition

Worn

Labyrinth

Shaft damage cause: Extensions bent Shaft Image:



Fax 901-873-5301



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: 9 Terminal Markings:

Length of leads: 12 inches REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal

Markings Identified By Color:

Size of leads: 4 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

Lug type: N/A Connections As Received:

Lug Condition: — Terminal Lugs

Lug size:

Lug Attachment: —



# **AC Electrical Inspection (Continued)**

Rotor Type: Cast Aluminum

Ok

Num rotor bars: 60

Num broken bars: 0

Rotor



#### **Rotor Test Results**

**Rotor Condition:** 

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:

Stator 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: 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 0. 0.144 0.144 0.2

Leads/jumpers: Ok Lead jumper Image. :

If other, leads/jumpers:

# **Mechanical Inspection**

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition: Other Bearings Retainer: Yes

Type of grounding device: Bearing DE Size: 63122rsrc3

Shaft runout(TIR-Inbound): .2500 Bearing ODE Size: 63112rsrc3

Retainer condition: Good

hone 901-873-5300

Fax 901-873-5301



Seals DE condition: Worn Brg. Seats DE: Good

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

Seals DE size: 2.5 Brg. Seats ODE: Good

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

Seals ODE condition: Worn Shaft damage: Replace

Seals ODE type: Labyrinth

Seals ODE size: 2.049 Bushings/sleeves DE: Ok

Seals ODE (inbound) condition : Same

Bushings/sleeves ODE: Ok

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

Endbell DE size: 5.1190 Foot flatness: Pass

Endbell DE insulated?: No

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

variation)?

Endbell ODE insulated?: No

Endbell ODE size:

4.7263



### Conclusion

#### **Component Failure**

Shaft, bearings, seals, opposite drive End-bell

#### **Cause of Failure**

Ice on shaft causing imbalance and bending shaft

#### **Comments**

Service Tech name: Trevor Hall

Service Tech signature: