

#### **Job Information**

Job #: 94798 Date: November 2,

2018

Priority: — Authorized OT: No Authorized by:

## **Customer Information**

Name: Bemis Reason:

Contact: Motor#: PO#:

Application: – Special notes:

### **Name Plate Information**

Manufacturer: Gardner Denver Enclosure: Open Drop Proof Enclosure Type image

(ODP)

Serial#: S515785 Model#: GAFMDRA

Service Factor: Frame:

Horsepower/kW: Rated RPM: 2350

Rated Amps: Rated Voltage:

Phase: Cycles:

Special design: No

Nameplate DE ODE F1 F2 Top













Contaminant Image:



## **Mechanical Inspection**

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: No Contaminant(s): Dirt

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

Shaft grounding device No

present?:

Shaft runout(TIR-Inbound):

Type of grounding device:

Bearings DE: Worn Bearings DE make: NACHI

Insulated: No Bearing DE Size: 21307EXQ

Bearings ODE: Worn Bearings ODE make: NACHI

Bearing Type: Ball Bearing ODE Size: 5307 F

Bearings Retainer: Yes Thermal Protection: No

Retainer condition: Good Thermal Protection Type: —

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection

7030 Ryburn Drive Millington, TN 38053 Phone 901-873-5300 CENTRAL ARKANSAS 6812 Lindsey Rd. Little Rock, AR 72206 Phone 501-375-9178 fax 501-375-4254



Lubrication Type: Oil Thermal Protection device DE: —

Lubrication brand inbound: Unknown Thermal Protection device ODE: —

Lubrication brand outbound: Unknown

Grease Amt DE: Full Grease Cond. DE: Charred

Grease Amt ODE: Full Grease Cond. ODE: Other

Seals DE type: Slinger Seals Image:

Seals DE size: Cr13691

Seals DE (inbound) condition: Worn

Seals ODE type:

Seals Image 2:

Seals ODE size: 1.875x2.750x0.3185

Seals ODE (inbound) condition Worn

Worn

Slinger

Shaft damage cause: None Shaft Image:





Brg. Image:



Water jacket: Ok 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: — 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

Lug type: Connections As Received:

Lug Condition: — Terminal Lugs

Lug size:

Lug Attachment: —



Ok

# **AC Electrical Inspection (Continued)**

Rotor Type: Other

Num rotor bars:

Num broken bars:

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: In slot If other, stator failure:



# **AC Electrical Inspection (Continued)**

Winding color:	Like new	Winding image		Winding	ding Thermal Protection: Yes	
Winding condition:	Solid					
Winding Thermal Protection DE:	_					
Winding Thermal Protection ODE:	-					
Stator test results:	Salvageable					
Megs incoming: G	ood	Surge incoming:	Good		Hi-pot incoming:	Good
Winding Resistance Ir	ncoming					
Phases A to B		Phases B to C		Phases C to A	Resistive	imbalance
Incoming						
Leads/jump	ers: Ok					
If other, leads/jump	ers:					

## **Mechanical Inspection**

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition: Good Bearings Retainer: Yes

Type of grounding device: Bearing DE Size: 21307EXQ W33

Shaft runout(TIR-Inbound): 0.001 Bearing ODE Size: 5307 F

Retainer condition: Good



Seals DE condition: Worn Brg. Seats DE: Good

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

Seals DE size: Cr13691 Brg. Seats ODE: Good

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

Seals ODE condition: Worn Shaft damage: OK

Seals ODE type: Isolators

Seals ODE size: 1.875x2.750x0.3185

Bushings/sleeves DE: Ok

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

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

Endbell DE size: 3.1517 Foot flatness: Pass

Endbell DE insulated?: No

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

variation)?

Endbell ODE insulated?: No

Endbell ODE size:

3.1502



#### Conclusion

#### **Component Failure**

Inboard bearing housing fits are over tolerance. Need sleeved. Need new bearings and seals

#### **Cause of Failure**

Plastic dust built up in rotors causing them to lock up once heat made the plastic melt.

#### **Comments**

Service Tech name: Trevor Hall

Service Tech signature:

/- Trll