

Job Information

Job #: 95660 Date: June 12, 2019

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: Waco Manufacturing Reason:

Contact: Motor#: PO#:

Application: – Special notes:

Name Plate Information

Serial#:

Manufacturer: Reliance Enclosure: Open Drop Proof Enclosure Type image

(ODP) 653042A-4 Model#: 2922

Service Factor: Frame: AVB-2540

Horsepower/kW: 7.5 Rated RPM: 1800

Rated Amps: 22/11 Rated Voltage: 220/440

Phase: 3 Cycles: 60

No

Nameplate DE ODE F1 F2 Top



Special design:









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 No Contaminant Image:

present?:

Shaft runout(TIR-Inbound):

Type of grounding device:

Bearings DE: Worn Bearings DE make: Other

Insulated: No Bearing DE Size: 6308 KDD N

Bearings ODE: Worn Bearings ODE make: Other

Bearing Type: Ball Bearing ODE Size: 6308 KDD N

Bearings Retainer: No Thermal Protection: Yes

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: Unknown Thermal Protection device ODE: —

Lubrication brand outbound: Unknown

Grease Amt DE: Full Grease Cond. DE: Watery

Grease Amt ODE: Full Grease Cond. ODE: Watery

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: None Shaft Image:





Brg. Image:



Bushings/sleeves image:



Water jacket:

N/A

Fan:

Ok

Frame cond.:

Good



Endbell Image:

Motor Mount Position:

Horizontal/Foot mount

Endbell type:

Single piece

Missing parts?

O-rings

☐ J-Box cover

☐ 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" 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: Worn 4-Yellow 8-Red

Connections As Received: Lug type:

Lug Condition: — Terminal Lugs

Lug size:

Lug Attachment: —

Lug





AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor Condition: Ok ____

Num broken bars:

Num rotor 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: Other If other, stator failure:

Stator Image: Failure Image:







AC Electrical Inspection (Continued)

Winding color: Still has color Winding image Winding Thermal Protection: No

Winding condition: Solid

Winding Thermal Protection DE:

Winding Thermal Protection ODE:

Stator test results: Rewind

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

Leads/jumpers: Ok Lead jumper Image. :

If other, leads/jumpers:

Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition: Good Bearings Retainer: No

Type of grounding device: Bearing DE Size: 6308

Shaft runout(TIR-Inbound): Bearing ODE Size: 6308

Retainer condition: —

ax 901-873-5301



Seals DE condition: None Brg. Seats DE: Good

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: 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: 3.5435 Foot flatness: Pass

Endbell DE insulated?: No

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

variation)?

Endbell ODE insulated?: No

Endbell ODE size:

3.5439



Conclusion

Com	pon	ent	Fail	ure
-----	-----	-----	------	-----

Cause of Failure

Water in windings.

Comments

Stator and brake assembly had excessive amounts of water inside. Insulation on leads is very brittle and requires releading.

Service Tech name: Terrence Holland

Service Tech signature: