

Job Information

Job #: 96225 Date: November 8,

2019

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: Greenbrier Reason:

Contact: Motor#: PO#:

Application: – Special notes:

Name Plate Information

Manufacturer: P&H Enclosure: Totally Enclosed Enclosure Type image

Fan Cooled

Serial#: F6304530010 Model#: ZFB150/3DF160LB

R4X

Service Factor: Frame:

Horsepower/kW: 8 Rated RPM: 850/3450

Rated Amps: 20/42 Rated Voltage: 460

Phase: 3 Cycles: 60

Special design: No

Nameplate DE ODE F1 F2 Top













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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?: Contaminant Image:

Type of grounding device:

Shaft runout(TIR-Inbound):

Bearings DE: Worn Bearings DE make: NSK

Insulated: No Bearing DE Size: 6310

Bearings ODE: Worn Bearings ODE make: NSK

Bearing Type: Ball Bearing ODE Size: 6309

Bearings Retainer: Yes 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: Mobile Polyrex EM Thermal Protection device ODE:

Lubrication brand outbound: Mobile Polyrex EM

> Grease Amt DE: 0 Grease Cond. DE: New

Grease Amt ODE: Grease Cond. ODE: New

Seals DE type: Seals Image: Other

Seals DE size: 55 80 8

Seals DE (inbound) condition: Bad

> Seals ODE type: N/A

Seals ODE size:

Seals ODE (inbound) condition

Shaft damage cause: None

Shaft Image:





Brg. Image:



Bushings/sleeves image:

Not Available

Water jacket:

N/A

Fan:

Ok

Frame cond.:

Good



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: 6 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: Good 4-Yellow 8-Red

Connections As Received: Lug type:

Lug Condition: Good Terminal Lugs

Lug size:

Lug Attachment: —



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AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Ok

Num rotor bars: 28

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:

Stator Image: Failure Image:

Not Available



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: 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 0.00 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: Good Bearings Retainer: Yes

Type of grounding device: Bearing DE Size: 6310

Shaft runout(TIR-Inbound): Bearing ODE Size: 6309

Retainer condition: —

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Seals DE condition: Other Brg. Seats DE: Good

Seals DE type: Other If DE undersized, amt.: 1.9690

Seals DE size: 55=80=8 Brg. Seats ODE: Good

Seals DE (inbound) condition: If ODE undersized, amt.: 1.7721

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: 4.3308 Foot flatness: Pass

Endbell DE insulated?: No

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

variation)?

Endbell ODE insulated?: No

Endbell ODE size:

3.9380



Conclusion

Component Failure

Cause of Failure

Comments

Bearings And Seal wash & bake.ODE BEARING SHOW SIGNS OF CONTAMINATION IN THE GREASE

Service Tech name: Robert Wiley

Service Tech signature:

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