

Job Information

94600 Job #: Date: August 14, 2018

Priority: Authorized OT: No Authorized by:

Customer Information

Name: Stuttgart Flour Milling Reason:

Contact: Motor#: PO#:

Application: Special notes:

WAA013598

1.0

400

No

Name Plate Information

Serial#:

Service Factor:

Special design:

Manufacturer: **ABB** Enclosure: Open Drop Proof **Enclosure Type image**

Frame:

(ODP)

447THDN17055M Model#:

W

Horsepower/kW: Rated RPM: 1785

Rated Amps: 152 Rated Voltage: 460

Phase: 3 Cycles: 60

Nameplate DE ODE F1 F2 Top













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?: Contaminant Image:

Type of grounding device:

Shaft runout(TIR-Inbound):

.001

Bearings DE: Worn Bearings DE make: FAG

Insulated: No Bearing DE Size: 6318

Bearings ODE: Worn Bearings ODE make: FAG

Bearing Type: Ball Bearing ODE Size: 6314

Bearings Retainer: Yes Thermal Protection: Yes

Retainer condition: — Thermal Protection Type: —

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection

Not Available



Mechanical Inspection (Continued)

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: Full Grease Cond. DE: New

Grease Amt ODE: Full Grease Cond. ODE: New

Seals DE type: Slinger Seals Image:

Seals DE size:

Not
Available

Seals DE (inbound) condition:

Seals Image 2:

Seals ODE type: Slinger

Not Available

Seals ODE (inbound) condition

Seals ODE size:

Shaft damage cause: None Shaft Image:



Mechanical Inspection (Continued)

Brg. Image:



Bushings/sleeves image:

Not Available

Water jacket:

Ok

Fan:

Ok

Frame cond.:

Good

Not Available Not Available

Motor Mount Position:

Horizontal/Foot mount

Endbell type:

Endbell Image:

Single piece

Missing parts?

☐ J-Box cover

O-rings

☐ J-Box

☐ HH cover

Glands

■ None

Other missing parts



Mechanical Inspection (Continued)

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:

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 Attachment: — Not Available

Lug size:



AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Ok

Num rotor bars: 58

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: Failure Image:







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: Rewind

Not Available

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 9.622 9.613 9.598 0.2

Leads/jumpers: Ok Lead jumper Image. :

If other, leads/jumpers:





Conclusion

Component Failur

Bearings

Cause of Failure

Oversized shaft fit/contamination of grease

Comments

Found excessive amounts of product inside stator windings and in end bell bearing grease. Also found oversized bearing journal on drive end and lip/ groove worn in o.d.e housing.

Service Tech name: Terrence Holland

Service Tech signature: