

Job Information

Job #: 97133 Date: July 31, 2020

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: Process and Power Reason:

Contact: Motor#: PO#:

Application: – Special notes:

A1809252002

Name Plate Information

Serial#:

Manufacturer: Baldor Enclosure: Totally Enclosed Enclosure Type image

Type: P

Model#:

Fan Cooled

Service Factor: Frame: 445TDZ

Horsepower/kW: 200 Rated RPM: 3575

Rated Amps: 233 Rated Voltage: 460

Phase: 3 Cycles: 60

No

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: — Contaminant(s) Amt: None

Shaft grounding device

present?:

Type of grounding device:

Shaft runout(TIR-Inbound): .001

Bearings DE: Worn Bearings DE make: SKF

Insulated: No Bearing DE Size: 6313 C3

Bearings ODE: Worn Bearings ODE make: SKF

Bearing Type: Ball Bearing ODE Size: 6313 C3

Bearings Retainer: Yes Thermal Protection: No

Retainer condition: Good Thermal Protection Type: —

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection



Seals Image 2:



Mechanical Inspection (Continued)

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: Charred

Grease Amt ODE: Full Grease Cond. ODE: Charred

Seals DE type: Slinger Seals Image:

Seals DE size:

Seals ODE type: Slinger

Seals ODE size:

Seals ODE (inbound) condition

Seals DE (inbound) condition:

Shaft damage cause: None Shaft Image:

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CENTRAL ARKANSAS



Mechanical Inspection (Continued)

Brg. Image:



Bushings/sleeves 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



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: 6 Terminal Markings:

Length of leads: 5'10" 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: — Terminal Lugs

Lug size:

Lug Attachment: —



AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Ok

Num rotor bars:

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: Coil head If other, stator failure:

Stator Image: Failure 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: Rewind

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

Leads/jumpers: Ok

If other, leads/jumpers:

Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition: Good Bearings Retainer: Yes

Type of grounding device: None Bearing DE Size: 6313 C3

Shaft runout(TIR-Inbound): .001 Bearing ODE Size: 6313 C3

Retainer condition: Good

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Mechanical Inspection (Continued)

Seals DE condition: Worn Brg. Seats DE: Undersized

Seals DE type: Slinger If DE undersized, amt.: .002

Seals DE size: Brg. Seats ODE: Good

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

Seals ODE condition: Worn Shaft damage: OK

Seals ODE type: Slinger

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: 5.5120 Foot flatness: Pass

Endbell DE insulated?: No

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

variation)?

5.5125

Endbell ODE insulated?: No

Endbell ODE size:



Conclusion

Com	ponent	Failure
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Cause of Failure

Windings overloaded.

Comments

Windings show signs of being electrically overloaded. Both bearings worn and show signs of frosting. The D.E bearing was moved off the shoulder. The bearing fit measures.002 too small.

Tenence Helland

Service Tech name: Terrence Holland

Service Tech signature: