

Job Information

Job #: 94778 Date: October 3, 2018

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: St. Gobain Reason:

Contact: Motor#: PO#:

Application: – Special notes:

Name Plate Information

Manufacturer: Web Enclosure: Totally Enclosed Enclosure Type image

Fan Cooled

Serial#: 02DEZ11 Model#: 40018ET3C449T-

1014223406 W22

Service Factor: 1.15 Frame: L44719T

Horsepower/kW: 400 Rated RPM: 1790

Rated Amps: 455 Rated Voltage: 460

Phase: 3 Cycles: 60

Special design: No

Nameplate DE ODE F1 F2 Top













Fax 901-873-5301

Bearings DE make:

Other



Mechanical Inspection

Type of grounding device:

Shaft runout(TIR-Inbound):

Bearings DE:

Worn

Inspect bolt holes and fasteners. Validate correct fasteners.

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

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

Shaft grounding device No Contaminant Image:

present?:

Insulated: No Bearing DE Size: 6322 C3

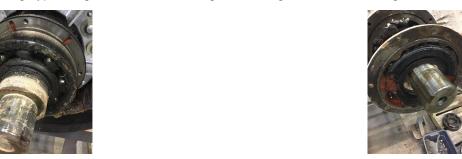
Bearings ODE: Worn Bearings ODE make: Other

Bearing Type: Ball Bearing ODE Size: 6319 C4

Bearings Retainer: Yes Thermal Protection: No

Retainer condition: Good Thermal Protection Type: —

Bearing Type Image Bearing Make Image Bearing Retainer Image Thermal Protection





Mechanical Inspection (Continued)

Lubrication Type: Grease Thermal Protection device DE: —

Lubrication brand inbound: Unknown Thermal Protection device ODE: —

Lubrication brand outbound: Mobile Polyrex EM

Grease Amt DE: 1/2 Grease Cond. DE: Hard

Grease Amt ODE: 1/2 Grease Cond. ODE: Hard

Seals DE type: Slinger

Seals DE size:

Seals DE (inbound) condition:

Seals ODE type: Slinger

Seals ODE size:

Seals ODE (inbound) condition

:

Shaft damage cause: None Shaft Image:





Mechanical Inspection (Continued)

Brg. Image:



Bushings/sleeves image:



Water jacket: N/A

Fan: O

Ok

Frame cond.:

Good



Endbell Image:

Motor Mount Position:

Horizontal/Foot mount

Endbell type:

Single piece

Missing parts?

☐ J-Box cover

O-rings

☐ HH cover

Glands

☐ J-Box

☐ None

Other missing parts



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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: 30" 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: 1-6-7-12, 2-4-8-10, 3-5-9-11 Lug type:

Lug Condition: Good Terminal Lugs

Lug size:

Lug Attachment: Acceptable



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: Ground If other, stator condition:

Failure location: In slot If other, stator failure:

Stator Image: Failure Image:







AC Electrical Inspection (Continued)

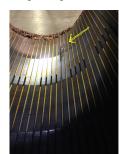
Winding color: Still has color Winding image Winding Thermal Protection: No

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

If other, leads/jumpers:



Conclusion

Component Failure

ODE bearing journal and bearing failed, windings, DE & ODE EB's Worn

Cause of Failure

With the journal and bearing failure the rotor rubbed the stator causing the laminations to overheat and burn the winding insulation

Lynn M. Doneld

Comments

Could have been caused by a misalignment of motor

Service Tech name: Lynn McDonald

Service Tech signature: