

Job Information

Job #: 96924 Date: June 5, 2020

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: Arauco Reason:

Contact: Motor#: PO#:

Application: – Special notes:

Name Plate Information

Manufacturer: Siemens Enclosure: Totally Enclosed Enclosure Type image

Fan Cooled Serial#: L99TESP313 Model#:

Service Factor: 1.15 Frame: 447T

Horsepower/kW: 200 Rated RPM: 1785

Rated Amps: 225 Rated Voltage: 460

Phase: 3 Cycles: 60

Special design: No

Nameplate DE ODE F1 F2 Top









Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: Yes Contaminant(s): Dirt

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: Koyo

Insulated: No Bearing DE Size: NU 320

Bearings ODE: Worn Bearings ODE make: SKF

Bearing Type: Cylindrical roller Bearing ODE Size: 6313

Bearings Retainer: Yes Thermal Protection: Yes

Retainer condition: Good Thermal Protection Type: —

Bearing Type Image



Bearing Make Image



Bearing Retainer Image

Thermal Protection



Lubrication Type: Oil 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 DE size:

Seals DE (inbound) condition:

Seals ODE type: Slinger

Seals ODE size:

Seals ODE (inbound) condition

:

Shaft damage cause: None



Brg. 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





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:

REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal Length of leads: 17"

Markings Identified By Color:

P1-No color assigned 1-Blue 5-Black Size of leads: P2-Brown

2-White 6-No color assigned

7-No color assigned 3-Orange

4-Yellow 8-Red Lead condition: Worn

Connections As Received: Lug type:

Lug Condition: Warn Terminal Lugs

Lug size:

Lug Attachment: Replace





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: 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: 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: NU 320

Shaft runout(TIR-Inbound): .002 Bearing ODE Size: 6316 2Z

Retainer condition: Good

Fax 901-873-5301



Seals DE condition: Worn Brg. Seats DE: Good

Seals DE type: Slinger 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: 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: 8.4649 Foot flatness: Pass

Endbell DE insulated?: No

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

variation)?

Endbell ODE insulated?: No

Endbell ODE size:

6.6931

Levere Holland



Conclusion

Component Fail	ure
----------------	-----

Bearings

Cause of Failure

Windings failed.

Comments

Rewind stator. Replace homemade eyebolt. Connection box missing.

Service Tech name: Terrence Holland

Service Tech signature:

Fax 901-873-5301