

Job Information

Job #: 94975 Date: December 19,

2018

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: Welspun Reason:

Contact: Ronnie Harris Motor#: PO#:

Application: – Special notes:

Name Plate Information

Manufacturer: Siemens Enclosure: Totally Enclosed Enclosure Type image

Fan Cooled

Serial#: E080215121777010 Model#: 1la71334aa91-z

04

Service Factor: 1.15 Frame:

Horsepower/kW: 7.5hp Rated RPM: 1760

Rated Amps: 12.8 Rated Voltage: 460

Phase: 3 Cycles: 60

Special design: No

Nameplate DE ODE F1 F2 Top















Mechanical Inspection

Type of grounding device:

Shaft runout(TIR-Inbound):

Bearings DE:

Inspect bolt holes and fasteners. Validate correct fasteners.

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

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

Shaft grounding device No Contaminant Image:

Worn

present?:

Insulated: No Bearing DE Size: 6208soc3

Bearings ODE: Worn Bearings ODE make: Other

Bearing Type: Ball Bearing ODE Size: 6208soc3

Bearings Retainer: No Thermal Protection: Yes

Retainer condition: — Thermal Protection Type: Thermocouple

Bearing Type Image



Bearing Make Image



Bearing Retainer Image

Bearings DE make:

Other

Thermal Protection





Lubrication Type: Grease Thermal Protection device DE: Thermistors

Lubrication brand inbound: Unknown Thermal Protection device ODE: N/A

Lubrication brand outbound: Unknown

Grease Amt DE: 0 Grease Cond. DE: Charred

Grease Amt ODE: 0 Grease Cond. ODE: Other

Seals DE type: Other Seals Image:

Seals DE size: 40-47-5

Seals DE (inbound) condition: Bad

Seals ODE type: N/A

Seals ODE size:

Shaft damage cause:

Seals ODE (inbound) condition

None Shaft Image:



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Brg. Image:



Water jacket: N/A Fan: Broken Frame cond.: Good





Motor Mount Position: Horizontal/Flange mount Endbell type: Single piece

Missing parts? Endbell Image:

☐ J-Box cover ☐ O-rings ☐ J-Box

☐ HH cover ☐ Glands ☐ None

Other missing parts

Fan cover







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: 8 inches REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal

Markings Identified By Color:

Size of leads: 14 AWG 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: Copper

Lug Condition: Good Terminal Lugs



Lug size:

Lug Attachment:

14 AWG



AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Ok

Rotor

Num rotor bars:

36

0

Num broken bars:

Rotor Test Results

Rotor Condition:

Visual: Single phase: **Pass** Growler: Pass **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: Dull black Winding image Winding Thermal Protection: Yes

Winding condition: Solid

Winding Thermal Good 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 1.223 1.190 1.198 2.1

Leads/jumpers: Ok

If other, leads/jumpers:

Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition: Good Bearings Retainer: No

Type of grounding device: Bearing DE Size: 6208soc3

Shaft runout(TIR-Inbound): 0.001 Bearing ODE Size: 6208soc3

Retainer condition: —

x 901-873-5301



Seals DE condition: Worn Brg. Seats DE: Good

Seals DE type: Isolators If DE undersized, amt.:

Seals DE size: 40-47-5 Brg. Seats ODE: Good

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

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: Bad Foot/Flange condition: Ok

Endbell DE size: 3.1703 Foot flatness: Pass

Endbell DE insulated?: No

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

variation)?

Endbell ODE insulated?: No

Endbell ODE size:

3.1615



Conclusion

Component Failure

Bearings/windings/seal/both endbells

Cause of Failure

No grease in bearings

Comments

Service Tech name: Trevor Hall

Service Tech signature: