

Job Information

Job #: 94648 Date: August 24, 2018

Priority: Authorized OT: No Authorized by:

Customer Information

Name: Welspun Reason:

Contact: Motor#: PO#:

Application: Special notes:

Name Plate Information

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

(ODP) Serial#: N820204824

1LAO 163-4YA91-Model#:

Ζ

Service Factor: 160M Frame:

Horsepower/kW: 11 Rated RPM: 1775

Rated Amps: 18 Rated Voltage: 460

Phase: 3 Cycles: 60

Special design:

No

Nameplate DE ODE F1 F2 Top













Fax 901-873-5301

CENTRAL ARKANSAS



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 No Contaminant Image:

present?:

Shaft runout(TIR-Inbound): .001

Type of grounding device:

Bearings DE: Worn Bearings DE make: SKF

Insulated: No Bearing DE Size: 6209 C3

Bearings ODE: Worn Bearings ODE make: SKF

Bearing Type: Ball Bearing ODE Size: 6209 C3

Bearings Retainer: Yes Thermal Protection: Yes

Retainer condition: Good 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: Unknown Thermal Protection device ODE: —

Lubrication brand outbound: Unknown

Grease Amt DE: 1/4 Grease Cond. DE: Gritty

Grease Amt ODE: 1/4 Grease Cond. ODE: Gritty

Seals DE type: Slinger Seals Image:

Seals DE size:

Seals DE (inbound) condition:

Seals Image 2:

Seals ODE size:

Seals ODE type:

Seals ODE (inbound) condition

Shaft damage cause: None Shaft Image

Shaft Image:

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Slinger



Mechanical Inspection (Continued)





Bushings/sleeves image:



Water jacket: Ok

OK

Fan: Ok

Frame cond.:

Good

Not Available Not Available

Endbell Image:



Motor Mount Position:

Horizontal/Foot mount

Endbell type:

Single piece

Missing parts?

☐ J-Box cover

O-rings

☐ J-Box

☐ HH cover

Glands

☐ None



Other missing parts

Fan and fan cover



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: U1,V1,W1-U2,V2,W2

REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal Length of leads: 6"

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: Good

Connections As Received: Lug type:

Lug Condition: Terminal Lugs

Lug size:

Lug Attachment:

Not Available



AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Ok

Num rotor bars: 37

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)

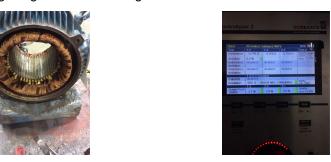
Winding color: Still has color Winding image Winding Thermal Protection: No

Winding condition: Solid

Winding Thermal Protection DE:

Winding Thermal Protection ODE:

Stator test results: Salvageable



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 0.759 0.758 0.756 0.2

Leads/jumpers: Ok Lead jumper Image. :

If other, leads/jumpers:





Conclusion

Component Failur

Bearings.

Cause of Failure

Worn bearings and grease contamination.

Comments

Fan cover and fan blade did not come with the motor. All electrical and mechanical checks are good.

Service Tech name: Terrence Holland

Service Tech signature:

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