

Job Information

94683 Job #: Date: September 11,

2018

Priority: Authorized OT: No Authorized by:

Customer Information

Name: **SMF** Reason:

Contact: Motor#: PO#:

Application: Special notes:

Name Plate Information

Manufacturer: **BONFIGLIOLI** Enclosure: Totally Enclosed **Enclosure Type image**

Fan Cooled

W86UB31 Serial#: 00306745403 Model#:

Service Factor: Frame:

Horsepower/kW: 5.4 Rated RPM: 1710

Rated Amps: 15.8/7.9 Rated Voltage: 230/460

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): None

Shaft rotation: Bi-directional Contaminant(s) Amt: None

Shaft grounding device

present?:

No

Type of grounding device:

Shaft runout(TIR-Inbound):

Bearings DE: Worn Bearings DE make: Other

Insulated: No Bearing DE Size: 6211ZZ

Bearings ODE: Worn Bearings ODE make: NACHI

Bearing Type: Ball Bearing ODE Size: 6206ZZ

Bearings Retainer: Yes Thermal Protection: Yes

Retainer condition: — Thermal Protection Type: —

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection





Mechanical Inspection (Continued)

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: Seals Image: Other

Seals DE size: 45-80-10

Seals DE (inbound) condition: Bad

Seals ODE type:

Seals Image 2:

Seals ODE size: 50-80-10/8

Seals ODE (inbound) condition Bad

Other

Shaft damage cause: Keyway bad Shaft Image:



Millington, TN 38053 Phone 901-873-5300 x 901-873-5301

LITTLE ROCK, AR



Mechanical Inspection (Continued)

Brg. Image:



Bushings/sleeves image:



Water jacket: Ok



Fan: Ok



Endbell Image:

Frame cond.:

Good



Motor Mount Position:

Horizontal/Foot mount

Endbell type:

Single piece

Missing parts?

☐ J-Box cover

O-rings

☐ J-Box

☐ HH cover

Glands

✓ None

6



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: 9 Terminal Markings: 1-9

REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal Length of leads: Markings Identified By Color:

P1-No color assigned 5-Black 1-Blue 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: High voltage 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:

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: Like new 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 2.825 2.830 2.830 0.2

Leads/jumpers: Ok Lead jumper Image. :

If other, leads/jumpers:





Conclusion

Component Failure

Cause of Failure

Found fatigue I one of the output bearings. Three seal surface need repair output shaft and key way bad ode End bell housing fits bad

Robers Wiles

Comments

Service Tech name: Robert Wiley

Service Tech signature: