

### **Job Information**

95684 Job #: Date: June 20, 2019

Priority: Authorized OT: No Authorized by:

## **Customer Information**

Name: B&B Reason:

Contact: Motor#: PO#:

Application: Special notes:

#### **Name Plate Information**

Manufacturer: North American Enclosure: Open Drop Proof **Enclosure Type image** 

(ODP) NAE-VHS 40-4 Serial#: 1204086 Model#:

Service Factor: 1.15 324T Frame:

Horsepower/kW: 40 Rated RPM: 1770

Rated Amps: 49.5/99 Rated Voltage: 460/208

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: CCW 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: 7221

Bearings ODE: Worn Bearings ODE make: Other

Bearing Type: Ball Bearing ODE Size: 6213

Bearings Retainer: Yes Thermal Protection: Yes

Retainer condition: — 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: Unknown

Grease Amt DE: Full Grease Cond. DE: New

Grease Amt ODE: Full Grease Cond. ODE: Gritty

Seals DE type: N/A

Seals DE size:

Seals DE (inbound) condition:

Seals ODE type: N/A

Seals ODE size:

Seals ODE (inbound) condition

:

Shaft damage cause: None Shaft Image:





Brg. Image:



Bushings/sleeves image:

Not Available

Water jacket: N/A Fan: N/A 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: 12 Terminal Markings: 1-12

Length of leads: 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

Connections As Received:

2-White 6-No color assigned P2-Brown

High voltage

3-Orange 7-No color assigned

Lead condition: Good 4-Yellow 8-Red

Lug type:

Lug Condition: — Terminal Lugs

Lug size:

Not Not

Lug Attachment: — Available Available



# **AC Electrical Inspection (Continued)**

Rotor Type: Cast Aluminum

Rotor Condition: Ok

Num rotor bars:

Num broken bars:

Rotor



#### **Rotor Test Results**

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: Like new Winding image Winding Thermal Protection: Yes

Winding condition: Solid

Winding Thermal Protection DE:

Winding Thermal Protection ODE:

Stator test results: Salvageable

Not Available

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 0.00 0.00 0.00 0.00

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: Bearing DE Size: 7221

Shaft runout(TIR-Inbound): Bearing ODE Size: 6213

Retainer condition: —

Fax 901-873-5301



Seals DE condition: Worn Brg. Seats DE: Good

Seals DE type: N/A If DE undersized, amt.: 4.1342

Seals DE size: Brg. Seats ODE: Good

Seals DE (inbound) condition: If ODE undersized, amt.: 2.5592

Seals ODE condition: Worn 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: Good Foot/Flange condition: Ok

Endbell DE size: 7.4815 Foot flatness: Pass

Endbell DE insulated?: No

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

variation)?

Endbell ODE insulated?: No

Endbell ODE size:

4.7244



#### Conclusion

**Component Failure** 

**Cause of Failure** 

**Comments** 

Found Abrasive wear in ode bearing

Service Tech name: Robert Wiley

Service Tech signature: