

### **Job Informatio**

Job #: 140145 Date: July 10, 2019

Priority: — Authorized OT: No Authorized by:

### **Customer Information**

Name: HISLR Reason:

Contact: Motor#: PO#:

Application: — Special notes:

## **Name Plate Information**

Manufacturer: GE Enclosure: Totally Enclosed Enclosure Type image

Fan Cooled

Serial#: JN371003 Model#: 5KS365S5118

Service Factor: 91.5 Frame: 365TS

Horsepower/kW: 75 Rated RPM: 3570

Rated Amps: 81.5 Rated Voltage: 460

Phase: 3 Cycles: 60

Special design: No

Nameplate DE ODE F1 F2 Top













Fax 901-873-5301



# **Mechanical Inspection**

Inspect bolt holes and fasteners. Validate correct fasteners.

N/A

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

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

Shaft grounding device No Contaminant Image:

present?:

Shaft runout(TIR-Inbound): N/A

Type of grounding device:

Bearings DE: Worn Bearings DE make: SKF

Insulated: No Bearing DE Size: 63142ZC3GCN

Bearings ODE: Worn Bearings ODE make: SKF

Bearing Type: Ball Bearing ODE Size: 63142ZC3GCN

Bearings Retainer: No Thermal Protection: No

Retainer condition: — Thermal Protection Type: —

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection





# **Mechanical Inspection (Continued)**

Lubrication Type: Grease 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: Watery

Grease Amt ODE: Full Grease Cond. ODE: Watery

Seals DE type: Slinger Seals Image:

Seals DE size:

N/A

Seals Image 2:

Seals ODE size:

Seals ODE type:

Seals ODE (inbound) condition

Seals DE (inbound) condition:

Shaft damage cause: None Shaft Image:

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# **Mechanical Inspection (Continued)**

Brg. Image:



Bushings/sleeves image:



Water jacket:





Fan: Ok Frame cond.:



Good

Motor Mount Position:

Horizontal/Foot mount

Endbell type:

Endbell Image:

Single piece

Missing parts?

☐ J-Box cover

O-rings

☐ J-Box

☐ HH cover

Glands

✓ None

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: 3 Terminal Markings:

REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal Length of leads: 12"

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: 460 Lug type: None

Lug Condition: Good Terminal

Lug size:

Lug Attachment: Acceptable









# **AC Electrical Inspection (Continued)**

Rotor Type: Cast Aluminum

Ok

Num rotor bars: 46

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)**

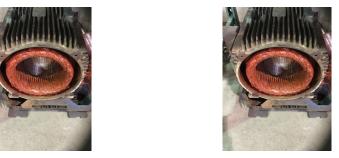
Winding color: Still has color Winding image Winding Thermal Protection: Yes

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

Leads/jumpers: Ok Lead jumper Image. :

If other, leads/jumpers:





### Conclusion

### **Component Failure**

Water in bearings and windings.

#### **Cause of Failure**

Water in motor.

#### **Comments**

Cleaned and baked stator out, stator surge test okay after bake out.

Service Tech name: Kelly Felts

Service Tech signature: