

Job Information

Job #: 139278 Date: March 6, 2019

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: Runyon Industries Reason: Motor inspection

Contact: Motor#: PO#:

Application: Direct Drive Special notes:

Name Plate Information

Manufacturer: Baldor Enclosure: Open Drop Proof Enclosure Type image

(ODP)

Serial#: C1306170412 Model#:

Service Factor: Frame: 326TS

Horsepower/kW: 60 Rated RPM: 3540

Rated Amps: 136/68 Rated Voltage: 230/460

Phase: 3 Cycles:

Special design: No

Nameplate DE ODE F1 F2 Top













Fax 901-873-5301



Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: No Contaminant(s): None

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

Shaft grounding device

present?:

Contaminant Image:

Type of grounding device:

Shaft runout(TIR-Inbound):

Bearings DE: Worn Bearings DE make: SKF

Insulated: No Bearing DE Size: 6312

Bearings ODE: Worn Bearings ODE make: SKF

Bearing Type: Ball Bearing ODE Size: 6311

Bearings Retainer: No Thermal Protection: No

Retainer condition: — Thermal Protection Type: —

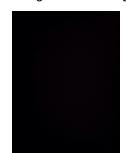
Bearing Type Image



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: 1/2 Grease Cond. DE: New

Grease Amt ODE: 1/2 Grease Cond. ODE: New

Seals DE type: N/A 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:



Mechanical Inspection (Continued)

Brg. Image:



Bushings/sleeves image:



Water jacket:

N/A



Frame cond.:

Good



N/A



Motor Mount Position:

Horizontal/Foot mount

Endbell type:

Single piece

Missing parts?

☐ J-Box cover

O-rings

☐ J-Box

☐ HH cover

Glands

✓ None

Endbell Image:



Shaft nut and locking washer



Lugs



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:

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

Markings Identified By Color:

Size of leads: 6 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: — 4-Yellow 8-Red

Connections As Received: 460 volt

Lug type: None

Lug size:

Lug Attachment: —

Terminal

Lug Condition:



AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Ok

Num rotor bars: 28

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: Open If other, stator condition:

Failure location: Coil head If other, stator failure:

Stator Image: Failure Image:





No



AC Electrical Inspection (Continued)

Winding color: Dull black Winding image Winding Thermal Protection:

Winding condition: Solid

Winding Thermal ___ Protection DE:

Winding Thermal Protection ODE:

Stator test results: Rewind



Megs incoming: Bad Surge incoming: Bad Hi-pot incoming: Bad

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

Windings

Cause of Failure

Open in the windings

Comments

This motor came in and had signs of it being disassembled before we put our hands on it. Missing lock nut and washer. Broken baffle on ope end. Also you can see pry bar marks on the windings on D.E side Also upon disassembly I noticed the endbells were miss aligned telling me that someone other than a Hispeed employee took this motor apart. 3/4 fame bolts were also loose.

Service Tech name: Dan Mahan

Service Tech signature:

