

Job Informatio

Job #: 140490 Date: August 29, 2019

Priority: Authorized OT: No Authorized by:

Customer Information

Name: HI-SPEED LR Reason:

Contact: Motor#: PO#:

Application: Special notes:

Name Plate Information

Manufacturer: Baldor/Reliance Enclosure: Totally Enclosed **Enclosure Type image**

Fan Cooled

C1703080777 EM4110T Serial#: Model#:

Service Factor: 1.15 324T Frame:

Horsepower/kW: 40 Rated RPM: 1775

Rated Amps: 96/48 Rated Voltage: 230/460

Cycles: Phase: 3 60

Special design: No

> Nameplate DE ODE F1 F2 Top













CENTRAL ARKANSAS

Contaminant Image:



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?:

Type of grounding device:

Shaft runout(TIR-Inbound):

Bearings DE: Worn Bearings DE make: Other

Insulated: No Bearing DE Size: 6312

Bearings ODE: Worn Bearings ODE make: SKF

Bearing Type: Ball Bearing ODE Size: 6311/C3 06 0450

Bearings Retainer: Yes Thermal Protection: No

Retainer condition: Good Thermal Protection Type: —

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection



Seals Image 2:



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: Charred

Grease Amt ODE: Full Grease Cond. ODE: Charred

Seals DE type: Slinger Seals Image:

Seals DE size:

Seals DE (inbound) condition:

Seals ODE type: Slinger

Seals ODE size:

Seals ODE (inbound) condition

Shaft damage cause: None Shaft Image:

Fax 901-873-5301



Mechanical Inspection (Continued)





Bushings/sleeves image:



Water jacket:

N/A

Fan:

Ok

Frame cond.:

Good



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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: 9 Terminal Markings: 1,2,3,4,5,6,7,8,9

REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal Length of leads: 15"

Markings Identified By Color:

P1-No color assigned 5-Black 1-Blue Size of leads: 8

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 N/A Lug type:

Lug Condition: Good

Lug size:

Lug Attachment:

Terminal



Lugs





AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Ok

Num rotor bars: 40

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: Questionable 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: Rewind





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

Winding Resistance Incoming

Phases A to B Phases B to C Phases C to A Resistive imbalance

Incoming 147.38 148.38 146.27 1.4

Leads/jumpers: Ok Lead jumper Image. :

If other, leads/jumpers:





Conclusion

Component Failure

Excessive oil in DE & ODE Bearings

Cause of Failure

Oil from grease got into the windings.

Comments

Retest after wash & bake out

Service Tech name: Kelly Felts

Service Tech signature: