

Job Informatio

Job #: 140226 Date: July 25, 2019

Priority: Authorized OT: No Authorized by:

Customer Information

Name: On Site Environmental Reason:

Contact: Motor#: PO#:

Application: Special notes:

Name Plate Information

Manufacturer: Shaker motor Enclosure: Totally Enclosed **Enclosure Type image**

Model#:

Fan Cooled

Service Factor: 286T Frame:

Horsepower/kW: 30 Rated RPM: 1800

Rated Amps: Rated Voltage: 460

Phase: 3 Cycles: 60

Special design: No

Serial#:

Nameplate DE ODE F1 F2 Top













CENTRAL ARKANSAS



Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: Contaminant(s): Yes Grease

> Shaft rotation: Bi-directional Contaminant(s) Amt: Other

Shaft grounding device No

Contaminant Image: present?:

Type of grounding device:

Shaft runout(TIR-Inbound):

Bearings DE: Worn Bearings DE make: **FAG**

Insulated: Bearing DE Size: NU2313-E-TVPZ-C3 No

Bearings ODE: Worn Bearings ODE make: **FAG**

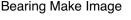
Bearing Type: Bearing ODE Size: Roller 223131-E1-C3

Bearings Retainer: Yes Thermal Protection: No

Retainer condition: Thermal Protection Type:

Bearing Type 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:

Seals ODE type: Slinger

Seals ODE size:

Seals ODE (inbound) condition

Seals DE (inbound) condition:

Shaft damage cause: None

Seals Image 2:



Shaft Image:





Mechanical Inspection (Continued)

Brg. Image:



Bushings/sleeves image:



Water jacket: N/A



Fan:

N/A

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

Broken J-Box bolt hole.



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: 1,2,3, GROUND WIRE

Length of leads: 24" SO 4 wire cable

REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal

Markings Identified By Color:

Size of leads: 12 1-Blue 5-Black P1-No color assigned

2-White 6-No color assigned P2-Brown

3-Orange 7-No color assigned

Lead condition: Bad 4-Yellow 8-Red

Connections As Received: Bad Lug type:

Lug Condition: Bad Terminal Lugs

Lug size:

Lug Attachment: —





Rotor



AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Ok

Num rotor bars: 46

Num broken bars: 0

Rotor Test Results

Rotor Condition:

Visual: Pass Growler: Pass Single phase: Pass

Stator type: Factory If other, stator type:

Stator condition: Single phase If other, stator condition:

Failure location: In slot If other, stator failure:

Stator Image: Failure Image:







AC Electrical Inspection (Continued)

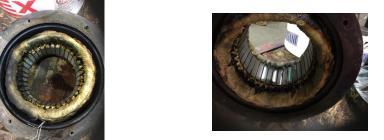
Winding color: Still has color Winding image Winding Thermal Protection: No

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:



Kelly Felto



Conclusion

Component Failure

Moisture and water in grease an windings

Cause of Failure

Single phased.

Comments

Service Tech name: Kelly Felts

Service Tech signature:

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