

Job Information

Job #: 140665

Date: September 18, 2019

Priority: —

Authorized OT: No

Authorized by:

Customer Information

Name: CERF

Reason:

Contact:

Motor#: 140665

PO#:

Application: —

Special notes:

Name Plate Information

Manufacturer: BALDOR

Enclosure : Totally Enclosed
Fan Cooled

Enclosure Type image

Serial#: A1306182038

Model#: 44G3986

Service Factor: 1.15

Frame: 449T

Horsepower/kW: 250HP

Rated RPM: 1785

Rated Amps: 276

Rated Voltage: 460

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): Grease

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

Shaft grounding device present?: No Contaminant Image:



Type of grounding device:

Shaft runout(TIR-Inbound): .001

Bearings DE: Worn Bearings DE make: FAG

Insulated: No Bearing DE Size: NU222

Bearings ODE: Worn Bearings ODE make: NACHI

Bearing Type: Roller Bearing ODE Size: 6318C3

Bearings Retainer: Yes Thermal Protection: Yes

Retainer condition: Good Thermal Protection Type: —

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection



Mechanical Inspection (Continued)

Lubrication Type: Grease

Thermal Protection device DE: N/A

Lubrication brand inbound: Mobile Polyrex EM

Thermal Protection device ODE: N/A

Lubrication brand outbound: Mobile Polyrex EM

Grease Amt DE: Full

Grease Cond. DE: Charred

Grease Amt ODE: Full

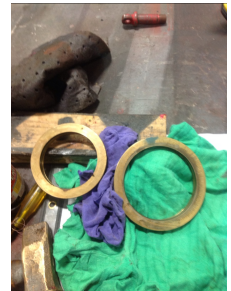
Grease Cond. ODE: Watery

Seals DE type: Other

Seals Image:

Seals DE size:

Seals DE (inbound) condition : Good



Seals ODE type: Other

Seals Image 2:

Seals ODE size:

Seals ODE (inbound) condition : Good



Shaft damage cause: None

Shaft Image:



Mechanical Inspection (Continued)

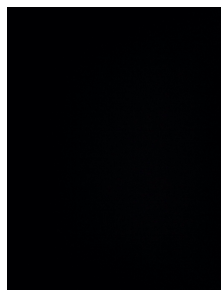
Brg. Image:



Bushings/sleeves image:



Water jacket: Ok



Fan: Ok



Frame cond.: Good



Motor Mount Position: Horizontal/Foot mount

Endbell type: Single piece

Missing parts?

☐ J-Box cover ☐ O-rings ☐ J-Box☐ HH cover ☐ Glands ☒ None

Other missing parts

Endbell Image:



Mechanical Inspection (Continued)

Air Gap Measurements (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: 6

Terminal Markings: 1-1 2-2 3-3

Length of leads: 12"

REF: NEMA Std. MG 1-2009, Rev. 1-2010, 2.41-Terminal Markings Identified By Color:

Size of leads: #1

1-Blue
2-White
3-Orange
4-Yellow

5-Black
6-No color assigned
7-No color assigned
8-Red

P1-No color assigned
P2-Brown

Lead condition: Worn

Lug type: Reg

Connections As Received: Open

Lug Condition: Warn

Lug size:

Lug Attachment: Replace

Terminal



Lugs



AC Electrical Inspection (Continued)

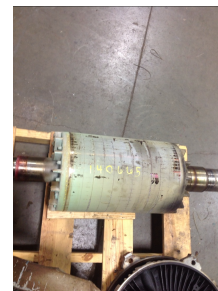
Rotor Type: Cast Aluminum

Rotor Condition: Ok

Num rotor bars: 58

Num broken bars: 0

Rotor



Rotor Test Results

Visual: Pass

Growler: Pass

Single phase: Pass

Stator type: Factory

If other, stator type:

Stator condition: Phase-to-phase short

If other, stator condition:

Failure location: Coil head

If other, stator failure:

Stator Image:



Failure Image:



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CENTRAL ARKANSAS

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AC Electrical Inspection (Continued)

Winding color: Dull black

Winding image

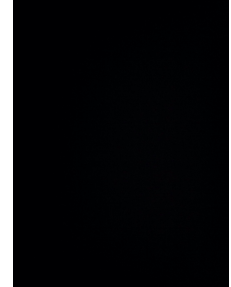
Winding Thermal Protection: No

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: Replace

Lead jumper Image. :

If other, leads/jumpers:





MILLINGTON, TN

LITTLE ROCK, AR

Conclusion

Component Failure

The winding went bad

Cause of Failure

Phase to phaseshorted

Comments

silicone stator when reassembling motor

Baffle in DE

Impro seals are good reuse both

Rewind stator

NOW THE ROTOR CHECKED GOOD BUT SLUNG ALUMINUM FROM OVER HEATING

Service Tech name: Michael

Service Tech signature:

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