

Job Information

Job #: 140353

Date: August 7, 2019

Priority: —

Authorized OT: No

Authorized by:

Customer Information

Name: Chemours

Reason:

Contact:

Motor#: 140353

PO#:

Application: —

Special notes:

Name Plate Information

Manufacturer: SIEMENS

Enclosure : Open Drop Proof (ODP)

Enclosure Type image

Serial#: E08T0189NPX 001

Model#: 1LA04454EE42

Service Factor: 1.15

Frame: 445TS

Horsepower/kW: 150

Rated RPM: 1785

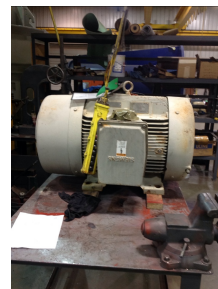
Rated Amps: 170.0

Rated Voltage: 460

Phase: 3

Cycles: 60

Special design: No



Nameplate

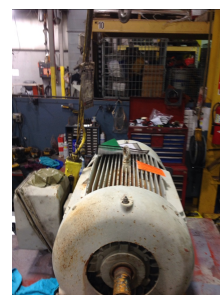
DE

ODE

F1

F2

Top



Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: Yes Contaminant(s): None

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

Shaft grounding device present?: No Contaminant Image:



Type of grounding device:

Shaft runout(TIR-Inbound): .001

Bearings DE: Worn Bearings DE make: Other

Insulated: No Bearing DE Size: 6316

Bearings ODE: Worn Bearings ODE make: Other

Bearing Type: Ball Bearing ODE Size: 6316

Bearings Retainer: Yes Thermal Protection: No

Retainer condition: Good Thermal Protection Type: —

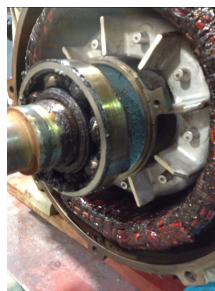
Bearing Type Image



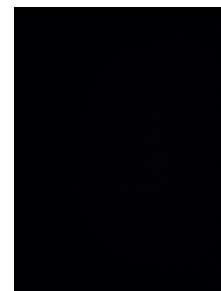
Bearing Make Image



Bearing Retainer Image



Thermal Protection



Mechanical Inspection (Continued)

Lubrication Type: Grease

Thermal Protection device DE: N/A

Lubrication brand inbound: Unknown

Thermal Protection device ODE: N/A

Lubrication brand outbound: Mobile Polyrex EM

Grease Amt DE: Full

Grease Cond. DE: Other

Grease Amt ODE: Full

Grease Cond. ODE: Other

Seals DE type: Other

Seals Image:

Seals DE size:

Seals DE (inbound) condition : Replace



Seals ODE type: Other

Seals Image 2:

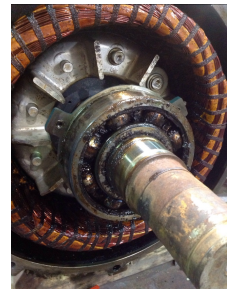
Seals ODE size:

Seals ODE (inbound) condition : Replace



Shaft damage cause: None

Shaft Image:

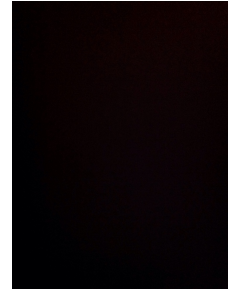


Mechanical Inspection (Continued)

Brg. Image:



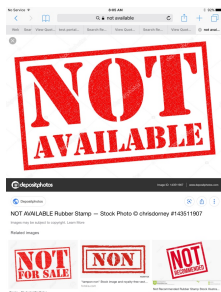
Bushings/sleeves image:



Water jacket: Ok

Fan: Ok

Frame cond.: Good



Motor Mount Position: Horizontal/Foot mount

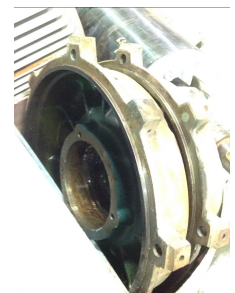
Endbell type: Single piece

Missing parts?

- | | | |
|--------------------------------------|----------------------------------|--|
| <input type="checkbox"/> J-Box cover | <input type="checkbox"/> O-rings | <input type="checkbox"/> J-Box |
| <input type="checkbox"/> HH cover | <input type="checkbox"/> Glands | <input checked="" type="checkbox"/> 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: 4

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: Good

Lug type: Reg

Connections As Received: Open

Lug Condition: Warn

Lug size: 3/8

Lug Attachment: Acceptable

Terminal



Lugs



AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor Condition: Ok

Num rotor bars: 36

Num broken bars: 0

Rotor



Rotor Test Results

Visual: Pass

Growler: Pass

Single phase: Pass

Stator type: Factory

If other, stator type: Mush

Stator condition: Ok

If other, stator condition: Ok

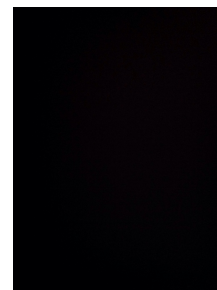
Failure location: Other

If other, stator failure: N/A

Stator Image:



Failure Image:



WEST TENNESSEE

7030 Ryburn Drive
Millington, TN 38053
Phone 901-873-5300
Fax 901-873-5301

CENTRAL ARKANSAS

6812 Lindsey Rd.
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Phone 501-375-9178
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AC Electrical Inspection (Continued)

Winding color: Still has color

Winding image

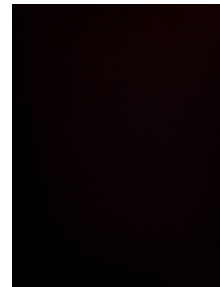
Winding Thermal Protection: No

Winding condition : Solid

Winding Thermal Protection DE: —

Winding Thermal Protection ODE: —

Stator test results: 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	0.028090	0.028050	0.028050	0.1

Leads/jumpers: Ok

Lead jumper Image. :

If other, leads/jumpers:





MILLINGTON, TN

LITTLE ROCK, AR

Conclusion

Component Failure

Bearings

Cause of Failure

The bearings appeared to have been fluting on the outer race

Comments

Order two new 6316 C3

Order two new impro seals

I recommend that one of the bearings be an insulated to protect the bearing

Service Tech name: Michael Jordan

Service Tech signature:

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