

## Job Information

Job #: 139456

Date: April 4, 2019

Priority: —

Authorized OT: No

Authorized by:

## Customer Information

Name: KTG

Reason: Clean up&amp;bearings

Contact:

Motor#:

PO#:

Application: Direct Drive

Special notes:

## Name Plate Information

Manufacturer: Siemens

Enclosure : Totally Enclosed  
Fan Cooled

Enclosure Type image

Serial#: C12T0333NPI39

Model#: SD100

Service Factor: 1.15

Frame: 286T

Horsepower/kW: 30

Rated RPM: 1775

Rated Amps: 35

Rated Voltage: 460

Phase: 3

Cycles:

Special design: No



Nameplate

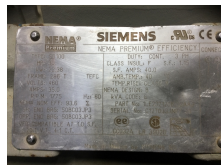
DE

ODE

F1

F2

Top



## Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: Yes

Contaminant(s): Oil

Shaft rotation: Bi-directional

Contaminant(s) Amt: Other

Shaft grounding device present?: No

Contaminant Image:



Type of grounding device:

Shaft runout(TIR-Inbound): 0.000

Bearings DE: Worn

Bearings DE make: Other

Insulated: No

Bearing DE Size: 6310zz

Bearings ODE: Worn

Bearings ODE make: Other

Bearing Type: Ball

Bearing ODE Size: 6310zz

Bearings Retainer: Yes

Thermal Protection: No

Retainer condition: Good

Thermal Protection Type: —

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection



### WEST TENNESSEE

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Phone 901-873-5300  
Fax 901-873-5301

### CENTRAL ARKANSAS

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Phone 501-375-9178  
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## 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: New

Grease Amt ODE: Full

Grease Cond. ODE: New

Seals DE type: N/A

Seals Image:



Seals DE size:

Seals DE (inbound) condition :

Seals ODE type: Slinger

Seals Image 2:



Seals ODE size:

Seals ODE (inbound) condition :

Shaft damage cause: None

Shaft Image:





## Mechanical Inspection (Continued)

Brg. Image:



Bushings/sleeves image:



Water jacket: N/A

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:

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## 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: 3

Terminal Markings: Yellow with numbers

Length of leads: 15"

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

Size of leads: 10 AWG

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: Round

Connections As Received: High voltage

Lug Condition: Good

Terminal

Lugs

Lug size: 12-10 1/4"

Lug Attachment: Acceptable



## AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor

Rotor Condition: Ok

Num rotor bars: 40

Num broken bars: 0



### Rotor Test Results

Visual: Pass

Growler: Pass

Single phase: Pass

Stator type: Factory

If other, stator type:

Stator condition: Ok

If other, stator condition:

Failure location: Other

If other, stator failure:

Stator Image:



Failure Image:



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## 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: 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	4.3	6.2	8.7	

Leads/jumpers: Ok

Lead jumper Image. :



If other, leads/jumpers:





MILLINGTON, TN

LITTLE ROCK, AR

## Conclusion

### Component Failure

Bearings

### Cause of Failure

Normal maintainance

### Comments

Motor was in good condition, shafts rusty due to high moisture. Bearings both had outer shields removed and were fed grease with alimite. Each end bell had a rubber slinger to help insure contaminants would stay out. Both slingers can be reused when reassembly. Spring washer goes inside ODE end bell.

Service Tech name: Jeremy Miller

Service Tech signature:

A handwritten signature in black ink that reads 'Jeremy A Miller'.

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