

Job Information

Job #: 138757

Date: December 21, 2018

Priority: —

Authorized OT: No

Authorized by:

Customer Information

Name: KTG

Reason:

Contact: Cindy Davis

Motor#: 138757

PO#:

Application: Direct Drive

Special notes:

Name Plate Information

Manufacturer: Siemens

Enclosure : Totally Enclosed
Fan Cooled

Enclosure Type image

Serial#:

Model#: 1CV3222A

Service Factor:

Frame: 250M

Horsepower/kW: 45 kw

Rated RPM: 3560

Rated Amps: 74

Rated Voltage: 480

Phase: 3

Cycles: 60

Special design: No



Nameplate

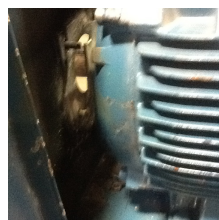
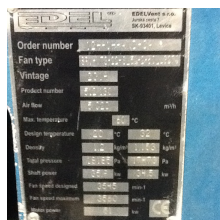
DE

ODE

F1

F2

Top



Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: Yes

Contaminant(s): Dirt

Shaft rotation: CW

Contaminant(s) Amt: Other

Shaft grounding device present?: Yes

Contaminant Image:



Type of grounding device:

Shaft runout(TIR-Inbound): .010

Bearings DE: Worn

Bearings DE make: SKF

Insulated: No

Bearing DE Size: 6213-ZZ

Bearings ODE: Worn

Bearings ODE make: SKF

Bearing Type: Ball

Bearing ODE Size: 6213-ZZ

Bearings Retainer: No

Thermal Protection: Yes

Retainer condition: Good

Thermal Protection Type: RTD

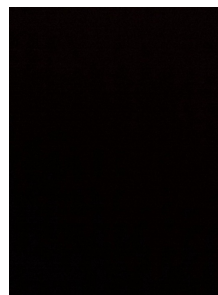
Bearing Type Image



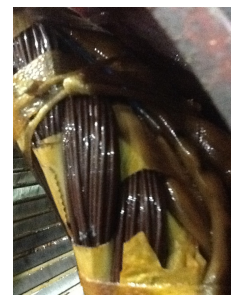
Bearing Make Image



Bearing Retainer Image



Thermal Protection



WEST TENNESSEE

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

CENTRAL ARKANSAS

6812 Lindsey Rd.
Little Rock, AR 72206
Phone 501-375-9178
Fax 501-375-4254

Mechanical Inspection (Continued)

Lubrication Type: Grease

Thermal Protection device DE: Thermistors

Lubrication brand inbound: Mobile Polyrex EM

Thermal Protection device ODE: N/A

Lubrication brand outbound: Mobile Polyrex EM

Grease Amt DE: 1/2

Grease Cond. DE: New

Grease Amt ODE: 1/2

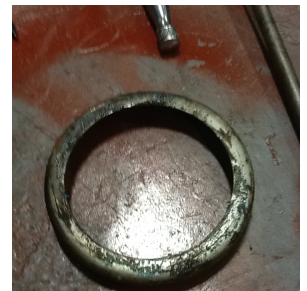
Grease Cond. ODE: New

Seals DE type: Slinger

Seals Image:

Seals DE size: N/A

Seals DE (inbound) condition : N/A

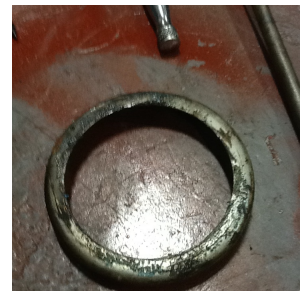


Seals ODE type: Slinger

Seals Image 2:

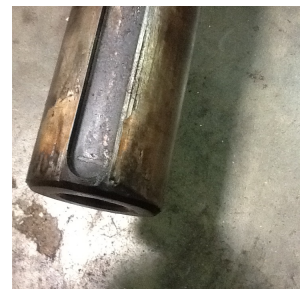
Seals ODE size: N/A

Seals ODE (inbound) condition : N/A



Shaft damage cause: Keyway bad

Shaft Image:

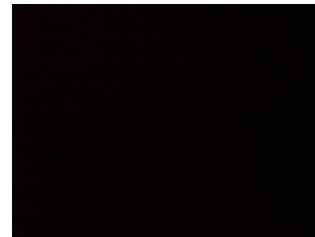


Mechanical Inspection (Continued)

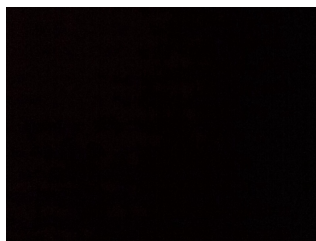
Brg. Image:



Bushings/sleeves image:



Water jacket: N/A



Fan: Ok



Frame cond.: Good



Motor Mount Position: Horizontal/Foot mount

Endbell type: Single piece

Missing parts?

- | | | |
|--------------------------------------|----------------------------------|--|
| ☐ 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: 1-6

Length of leads: 12"

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

Size of leads: # 8

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: 1-6 /2-4 /3-5

Lug Condition: Good

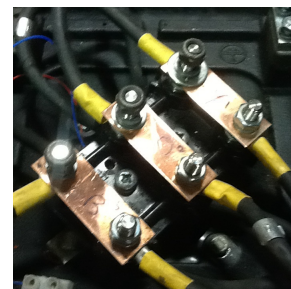
Lug size: #8

Lug Attachment: Acceptable

Terminal



Lugs



AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor Condition: Ok

Num rotor bars: 23

Num broken bars: 0

Rotor



Rotor Test Results

Visual: Pass

Growler: Pass

Single phase: Pass

Stator type: Factory

If other, stator type:

Stator condition: Ok

If other, stator condition: Good

Failure location: Other

If other, stator failure: N/A

Stator Image:



Failure Image:



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AC Electrical Inspection (Continued)

Winding color: Like new

Winding image

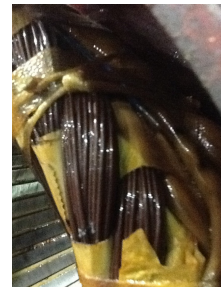
Winding Thermal Protection: Yes

Winding condition : Solid

Winding Thermal Protection DE: Good

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	0.097420	0.096480	0.097200	0.5

Leads/jumpers: Ok

Lead jumper Image. :

If other, leads/jumpers:





MILLINGTON, TN

LITTLE ROCK, AR

Conclusion

Component Failure

Bearings / Blowerfan & Housing / DE-ODE end bells / Shaft & Key way

Cause of Failure

All of the above

Comments

Service Tech name: Michael

Service Tech signature:

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