

## Job Information

Job #: 142668

Date: June 18, 2020

Priority: —

Authorized OT: No

Authorized by:

## Customer Information

Name: KTG

Reason:

Contact:

Motor#: 142668

PO#:

Application: —

Special notes:

## Name Plate Information

Manufacturer: Mario cotta

Enclosure : Open Drop Proof (ODP)

Enclosure Type image

Serial#: C159/20

Model#:

Service Factor:

Frame:

Horsepower/kW: .45KW

Rated RPM: 1590

Rated Amps: 1,3

Rated Voltage: 380

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?: No 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): .0020"

Bearings DE: Worn Bearings DE make: NTN

Insulated: No Bearing DE Size: 6007

Bearings ODE: Worn Bearings ODE make: NTN

Bearing Type: Ball Bearing ODE Size: 6002

Bearings Retainer: No Thermal Protection: Yes

Retainer condition: — Thermal Protection Type: —

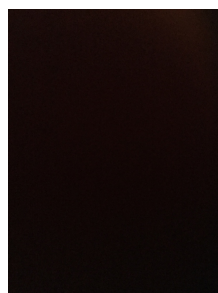
Bearing Type Image



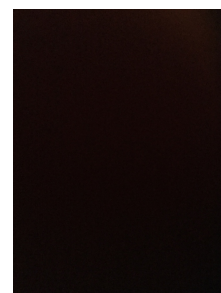
Bearing Make Image



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: —

Lubrication brand inbound: Mobile Polyrex EM

Thermal Protection device ODE: —

Lubrication brand outbound: Mobile Polyrex EM

Grease Amt DE: 0

Grease Cond. DE: Other

Grease Amt ODE: 0

Grease Cond. ODE: Other

Seals DE type: N/A

Seals Image:

Seals DE size: N/A

Seals DE (inbound) condition : N/A

Seals ODE type: N/A

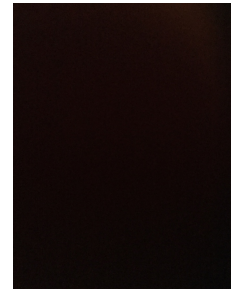
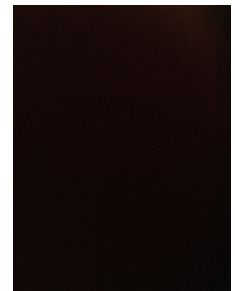
Seals Image 2:

Seals ODE size: N/A

Seals ODE (inbound) condition : N/A

Shaft damage cause: None

Shaft Image:



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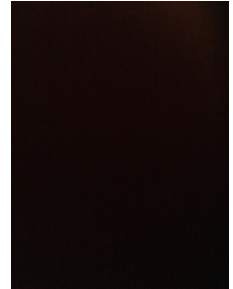
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## Mechanical Inspection (Continued)

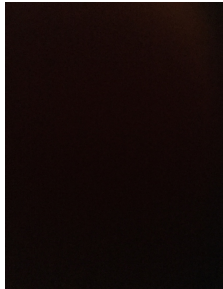
Brg. Image:



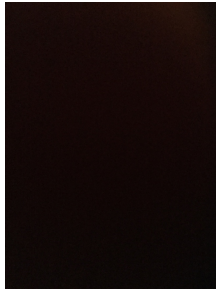
Bushings/sleeves image:



Water jacket: Ok



Fan: Ok



Frame cond.: Bad



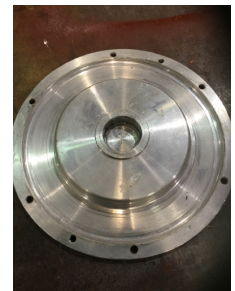
Motor Mount Position: Horizontal/Foot mount

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 type="checkbox"/> None  |

Endbell Image:



Other missing parts

Missing orange bracket, both rings and shim from flywheel and screws



## 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 brown - 2 blue - 3 black - 4 orange, grey, red - 9-10 over load

Length of leads: 25 inches

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

Size of leads: 16AWG

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: Pin

Connections As Received: 380 v

Lug Condition: Good

Lug size: 16

Lug Attachment: Acceptable

Terminal



Lugs



## AC Electrical Inspection (Continued)

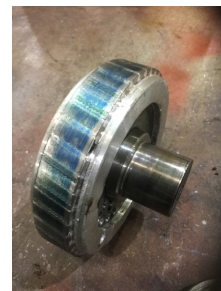
Rotor Type: Cast Aluminum

Rotor Condition: Ok

Num rotor bars: 44

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:

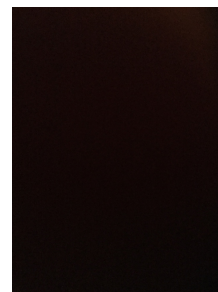
Failure location: In slot

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: Yes

Winding condition : Solid

Winding Thermal  
Protection DE: —

Winding Thermal  
Protection ODE: —

Stator test results: Rewind



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

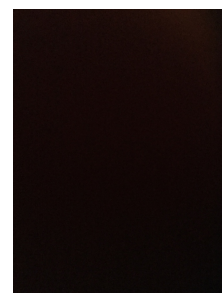
Resistive imbalance

Incoming

Leads/jumpers: Ok

Lead jumper Image. :

If other, leads/jumpers:



## Conclusion

### Component Failure

Bearings

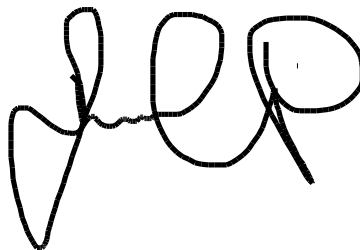
### Cause of Failure

### Comments

Replace bearings and broken housing .

Service Tech name: Jesus

Service Tech signature:

A handwritten signature in black ink, appearing to be 'Jesus'.