Job Information

Job #: 142662 Date: June 19, 2020

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: KTG Reason:

Contact: Motor#: 142662 PO#:

Application: — Special notes:

Name Plate Information

Manufacturer:	Mario cotta	Enclosure :	Open Drop Proof (ODP)
Serial#:	E843/09	Model#:	
Service Factor:	S1	Frame:	
Horsepower/kW:	.45	Rated RPM:	1590
Rated Amps:	3	Rated Voltage:	380
Phase:	3	Cycles:	85
Special design:	No		

Enclosure Type image

Nameplate

DE

ODE

F1

F2

Top

Mechanical Inspection

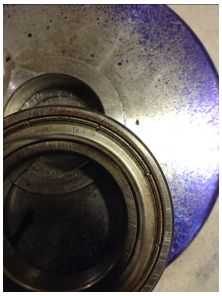
Inspect bolt holes and fasteners. Validate correct fasteners.

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:	Wire		
Shaft runout(TIR-Inbound):			

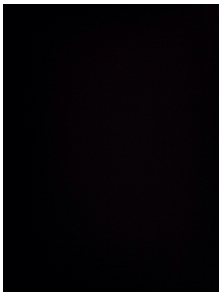
Bearings DE:	Worn	Bearings DE make:	NTN
Insulated:	No	Bearing DE Size:	6007
Bearings ODE:	Worn	Bearings ODE make:	FAG
Bearing Type:	Ball	Bearing ODE Size:	6002
Bearings Retainer:	No	Thermal Protection:	Yes
Retainer condition:	—	Thermal Protection Type:	Thermocouple

Bearing Type Image

Bearing Make Image

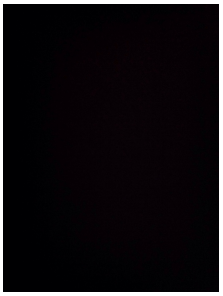
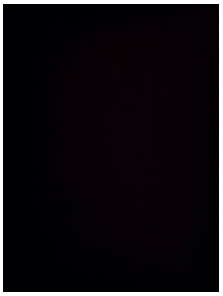


Bearing Retainer Image



Thermal Protection

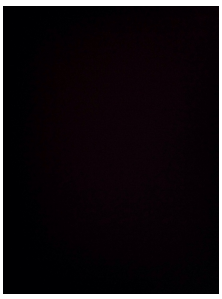
Mechanical Inspection (Continued)

Lubrication Type:	Grease	Thermal Protection device DE:	Thermal Overloads
Lubrication brand inbound:	Mobile Polyrex EM	Thermal Protection device ODE:	N/A
Lubrication brand outbound:	Mobile Polyrex EM		
Grease Amt DE:	1/4	Grease Cond. DE:	Other
Grease Amt ODE:	1/4	Grease Cond. ODE:	Other
Seals DE type:	N/A	Seals Image:	
Seals DE size:			
Seals DE (inbound) condition :			
		Seals Image 2:	
Seals ODE type:	N/A		
Seals ODE size:			
Seals ODE (inbound) condition :			
Shaft damage cause:	None	Shaft Image:	

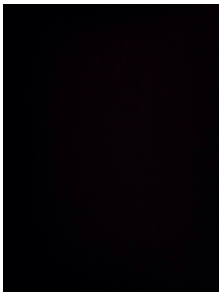
Mechanical Inspection (Continued)

Brg. Image:

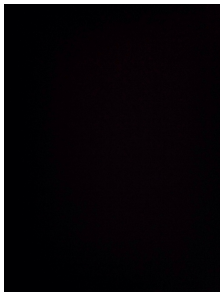
Bushings/sleeves image:



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

Endbell Image:

Other missing parts

Mechanical Inspection (Continued)

Air Gap Meaurements (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

Length of leads: 7'

Size of leads: #18

Lead condition: Good

Lug type: Pin

Lug Condition: Good

Lug size: #18

Lug Attachment: Acceptable

Terminal Markings: 1-6

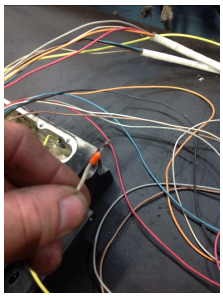
REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal Markings Identified By Color:

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

Connections As Received: 380

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: HISI

If other, stator type: HISI

Stator condition: Ok

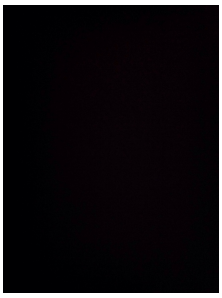
If other, stator condition: Ok

Failure location: Other

If other, stator failure: N/A

Stator Image:

Failure Image:



AC Electrical Inspection (Continued)

Winding color:	Like new
Winding condition :	Solid
Winding Thermal Protection DE:	Good
Winding Thermal Protection ODE:	—
Stator test results:	Rewind

Winding image

Winding Thermal Protection: Yes

Megs incoming: Good

Surge incoming: Good

Hi-pot incoming: Good

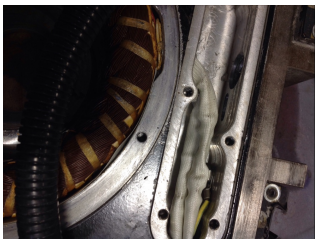
Winding Resistance Incoming

	Phases A to B	Phases B to C	Phases C to A	Resistive imbalance
Incoming	24	24	24	0.2

Leads/jumpers: Ok

If other, leads/jumpers:

Lead jumper Image. :



Conclusion

Component Failure

Bearings

Cause of Failure

Dirt and paper dust inside the motor

Comments

Clean up and bearings

Service Tech name: Michael

Service Tech signature: