

Job Information

| Job #: | 95283 | | | | Date: | February 28, 2019 |
|-----------|-------|----------------|----|----------------|-------|----------------------|
| Priority: | _ | Authorized OT: | No | Authorized by: | | |

Customer Information

| Name: | Name: Saint Gobain | | Reason: | |
|--------------|--------------------|----------------|---------|------|
| Contact: | | Motor#: | | PO#: |
| Application: | _ | Special notes: | | |

Name Plate Information

| Manufacturer: | Toshiba | Enclosure : | Open Drop Proof (ODP) |
|-----------------|---------|----------------|--------------------------|
| Serial#: | 1360 | Model#: | B1254F1-F4-1S- HO1 |
| Service Factor: | 1.15 | Frame: | 444T |
| Horsepower/kW: | 125 | Rated RPM: | 1785 |
| Rated Amps: | 290/145 | Rated Voltage: | 230/460 |
| Phase: | 3 | Cycles: | 60 |
| | | | |

Enclosure Type image



Nameplate

Special design:

DE

No

ODE

F1

F2

Тор









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Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

| Does the shaft turn freely?: | Yes | Contaminant(s): | Other |
|----------------------------------|----------------|---------------------|---|
| Shaft rotation: | Bi-directional | Contaminant(s) Amt: | Other |
| Shaft grounding device present?: | No | Contaminant Image: | AND THE PERSON AND AND AND AND AND AND AND AND AND AN |
| Type of grounding device: | | | |
| Shaft runout(TIR-Inbound): | 0.001 | | |
| | | | |
| Bearings DE: | Worn | Bearings DE make: | SKF |
| Insulated: | No | Bearing DE Size: | NU-318-ECM-C3 |
| Bearings ODE: | Worn | Bearings ODE make: | SKF |
| Bearing Type: | Ball | Bearing ODE Size: | 6318-2Z-C3 |
| Bearings Retainer: | Yes | Thermal Protection: | No |

Retainer condition:

Good



Bearing Type Image

Bearing Make Image



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Thermal Protection Type:

Thermal Protection

_



Mechanical Inspection (Continued)

| Lubrication Type: | Grease | Thermal Protection device DE: | _ |
|---------------------------------|---------|--------------------------------|---------|
| Lubrication brand inbound: | Unknown | Thermal Protection device ODE: | _ |
| Lubrication brand outbound: | Unknown | | |
| Grease Amt DE: | Full | Grease Cond. DE: | Charred |
| Grease Amt ODE: | Full | Grease Cond. ODE: | Charred |
| | | | |
| Seals DE type: | N/A | | |
| Seals DE size: | | | |
| Seals DE (inbound) condition : | | | |
| | | | |
| Seals ODE type: | N/A | | |
| Seals ODE size: | | | |
| Seals ODE (inbound) condition : | | | |
| Shaft damage cause: | None | Shaft Image: | |



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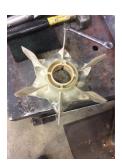
Mechanical Inspection (Continued)

Brg. Image:



| Water jacket: | N/A |
|---------------|-----|
|---------------|-----|

Fan: Ok



Endbell Image:

Frame cond.: Good

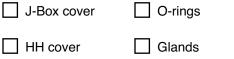


Motor Mount Position:

Horizontal/Foot mount

Endbell type:

Single piece



None

J-Box





Other missing parts

Missing parts?

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Mechanical Inspection (Continued)

| Air Gap M | eaurements (N/A on Single Piece E | 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

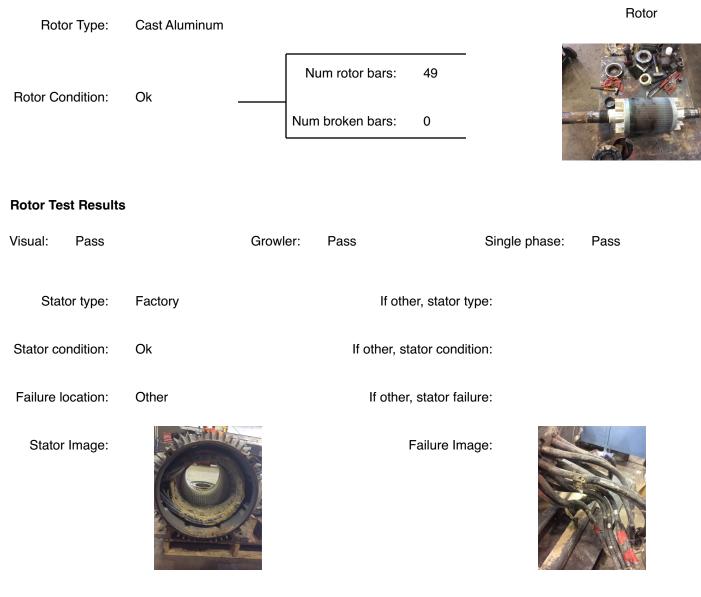
| Number of leads: | 9 | Terminal Markings: | | |
|------------------|------------|-----------------------------------|---|----------------------------------|
| Length of leads: | 16inch | REF: NEMA Std Markings Identif | ls. MG 1-2009, Rev. 1- ied By Color: | 2010, 2.41-Terminal |
| Size of leads: | | 1-Blue 2-White 3-Orange | 5-Black 6-No color assigned 7-No color assigned | P1-No color assigned P2-Brown |
| Lead condition: | Bad | 4-Yellow | 8-Red | |
| Lug type: | | Connections As Re | eceived: | |
| Lug Condition: | Good | | Terminal | Lugs |
| Lug size: | | | | |
| Lug Attachment: | Acceptable | | | |

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AC Electrical Inspection (Continued)



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AC Electrical Inspection (Continued)

| Winding color: | Still has color | Winding | g image W | /inding Therma | I Protection: | No |
|------------------------------------|---------------------|---|------------|----------------|---|---|
| Winding condition : | Solid | and the second se | | | | |
| Winding Thermal Protection DE: | | | 35 | | | |
| Winding Thermal Protection ODE: | | | | | | |
| Stator test results: | Salvageable | | | | | |
| Megs incoming: | Good | Surge incoming: | Good | Hi-pot in | coming: | Good |
| Winding Resistance | Incoming | | | | | |
| Ph | ases A to B | Phases B to C | Phases (| C to A | Resistive ir | nbalance |
| Incoming 3. | .5 | 2.8 | 3.1 | | | |
| Leads/jur | npers: Replace | | Lead ju | Imper Image. : | Non-American States | And Second States |
| If other, leads/jur | mpers: | | | | The second se | Alars Ale |
| Mechanical In | spection | | | | * | |
| Inspect bolt holes and | d fasteners. Valida | te correct fasteners. | | | | |
| Shaft C | ondition: Good | | Bearings F | Retainer: Ye | es | |

Type of grounding device:

Shaft runout(TIR-Inbound): 0.001

Retainer condition: Good

Bearings Retainer: Yes Bearing DE Size: 6318-2Z-C3 Bearing ODE Size: NU-318-ECM-C3

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Mechanical Inspection (Continued)

| Seals DE condition : | None | Brg. Seats DE: | Good |
|---------------------------------|-------------|---------------------------------------|-------------------------|
| Seals DE type: | N/A | If DE undersized, amt.: | |
| Seals DE size: | | Brg. Seats ODE: | Good |
| Seals DE (inbound) condition : | | If ODE undersized, amt.: | |
| Seals ODE condition : | None | Shaft damage: | ОК |
| Seals ODE type: | N/A | | |
| Seals ODE size: | | Bushings/sleeves DE: | Ok |
| Seals ODE (inbound) condition : | | Bushings/sleeves ODE: | Ok |
| Endbell fits/damage: | Good | Foot/Flange condition: | Ok |
| Endbell DE size: | 7.4803 | Foot flatness: | Pass |
| Endbell DE insulated?: | _ | Does Air Gap Meet Customer or EASA sp | tomer or EASA spec(<10% |
| Endbell ODE size: | 7.4790(BAD) | variation)? | |
| Endbell ODE insulated?: | _ | _ | |

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Conclusion

Component Failure

Both bearings were worn an ODE fit was too small

Cause of Failure

Contaminated grease

Comments

The leads looked as though they have been smashed an there is bare wires showing. Recommend re-lead on wires,

Service Tech name: Chris Wiley

Service Tech signature:

Cheir Ullu

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