

Job Informatio

| Job #: | 140848 | | | | Date: | October 7, 2019 |
|-----------|--------|----------------|----|----------------|-------|-----------------|
| Priority: | _ | Authorized OT: | No | Authorized by: | | |

Customer Information

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

Name Plate Information

| Manufacturer: | Nidec | Enclosure : | Totally Enclosed Fan Cooled | Enclosu | ure Type image |
|-----------------|--------------------------|----------------|--------------------------------|---------|-----------------|
| Serial#: | A057713325-0017 M0003 | Model#: | GB02 | 115 | HORVS Runyan |
| Service Factor: | 1.15 | Frame: | 256T | | |
| Horsepower/kW: | 20 | Rated RPM: | 3535 | | |
| Rated Amps: | 46/23.0 | Rated Voltage: | 230/460 | | |
| Phase: | 3 | Cycles: | 60 | | |
| Special design: | No | | | | |
| Nameplate | DE | 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): | Water |
|----------------------------------|----------------|---------------------|-------|
| Shaft rotation: | Bi-directional | Contaminant(s) Amt: | Other |
| Shaft grounding device present?: | No | Contaminant Image: | |
| Type of grounding device: | | | |
| Shaft runout(TIR-Inbound): | | | |

| FAG | Bearings DE make: | Worn | Bearings DE: |
|-----|--------------------------|------|---------------------|
| | Bearing DE Size: | No | Insulated: |
| FAG | Bearings ODE make: | Worn | Bearings ODE: |
| | Bearing ODE Size: | Ball | Bearing Type: |
| Yes | Thermal Protection: | No | Bearings Retainer: |
| _ | Thermal Protection Type: | _ | Retainer condition: |

Bearing Type Image



Bearing Make Image



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Bearing Retainer Image









Mechanical Inspection (Continued)

| Lubrication Type: | Grease | Thermal Protection device DE: | N/A |
|-----------------------------|-------------------|--------------------------------|--------|
| Lubrication brand inbound: | Mobile Polyrex EM | Thermal Protection device ODE: | N/A |
| Lubrication brand outbound: | Mobile Polyrex EM | | |
| Grease Amt DE: | 0 | Grease Cond. DE: | Watery |
| Grease Amt ODE: | 0 | Grease Cond. ODE: | Watery |
| Seals DE type: | Slinger | Seals Image: | N-12 |
| Seals DE size: | | | |

Seals DE (inbound) condition :

Seals ODE type: N/A

:

Seals ODE size:

Seals ODE (inbound) condition

Shaft damage cause:

Seals Image 2:



Shaft Image:



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None



Mechanical Inspection (Continued)

Brg. Image:



Bushings/sleeves image:



| Water jacket: N | I/A | Fan: | Ok | Frame co | ond.: Good | |
|---------------------|------------------|-----------|----|----------------|--------------|-----------|
| | | | | | | |
| Motor Mount Positio | on: Horizontal/F | oot mount | | Endbell type: | Single piece | |
| Missing parts? | | | | Endbell Image: | A lth L ave | The state |
| J-Box cover | O-rings | J-Box | | | | |
| HH cover | Glands | None None | | | | |
| Other missing part | S | | | | | |

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Mechanical Inspection (Continued)

| Air Gap Meaurements (N/A on Single F | 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: | _ | Terminal Markings: | | | | |
|------------------|---|-------------------------------------|---|----------------------------------|--|--|
| Length of leads: | | REF: NEMA Std: Markings Identifi | s. MG 1-2009, Rev. 1- ed 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: | _ | 4-Yellow | 8-Red | | | |
| Lug type: | | Connections As Re | ceived: | | | |
| Lug Condition: | _ | - | Terminal | Lugs | | |
| Lug size: | | | | | | |
| Lug Attachment: | _ | | | | | |

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AC Electrical Inspection (Continued)

| Rotor Type: | Cast Aluminum | | , | | Rotor |
|--------------------|---------------|----------|-----------------------------------|---------------|-------|
| Rotor Condition: | Ok | | lum rotor bars: n broken bars: | | |
| Rotor Test Results | 3 | | | | |
| Visual: Pass | C | Growler: | Pass | Single phase: | Pass |
| Stator type: | Factory | | If other, stator | type: | |
| Stator condition: | Ok | | If other, stator cond | lition: | |
| Failure location: | In slot | | If other, stator fa | ilure: | |
| Stator Image: | | | Failure Im | nage: | |

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AC Electrical Inspection (Continued)

| Winding color: | Still has color | Winding | ı image | Winding Thermal | Protection: | No |
|------------------------------------|-----------------|-----------------|----------|-----------------|---------------|--------|
| Winding condition : | Solid | | | | | |
| Winding Thermal Protection DE: | _ | | | | | |
| Winding Thermal Protection ODE: | _ | | | | | |
| Stator test results: | Salvageable | | | | | |
| | | | | | | |
| Megs incoming: Good | t | Surge incoming: | Good | Hi-pot inc | oming: Go | bod |
| Winding Resistance Inc | coming | | | | | |
| Phase | es A to B | Phases B to C | Phase | es C to A | Resistive imb | alance |
| Incoming | | | | | | |
| | | | | | | |
| Leads/jumpe | ers: Ok | | Lead jun | nper Image. : | | |
| If other, leads/jumpe | ers: | | | | | |

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Conclusion

Component Failure

Bearings

Cause of Failure

Buildup of dirt and water lead to bearing failure

Comments

Service Tech name: Stone Hubbard

Service Tech signature:

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