

Job Information

Job #: 141305 Date: December 11,

2019

Priority: Authorized OT: No Authorized by:

Customer Information

Name: Toyota Reason:

Contact: Motor#: PO#:

Application: Special notes:

Name Plate Information

160

Serial#:

Service Factor:

Armature

Manufacturer: Yaskawa Enclosure: Open Drop Proof **Enclosure Type image**

Frame:

Fields

250CD

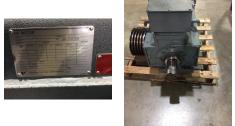
(ODP) T10860101 Model#:

Horsepower/kW: Rated RPM: 1750

Volts 390 Volts 150

> **Amps Amps**

Nameplate DE ODE F1 F2 Top











Fax 901-873-5301



Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: Yes Contaminant(s): Carbon

Shaft rotation: Bi-directional Contaminant(s) Amt: Other

Shaft Condition: — Contaminant Image:

Shaft grounding device

present?:

Type of grounding device:

Shaft runout(TIR-Inbound):



Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection



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:

Full

Grease Cond. DE:

Hard

Hard

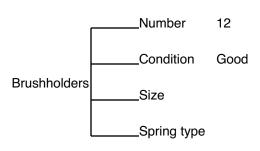
Grease Amt ODE:

Full

Grease Cond. ODE:



Mechanical Inspection (Continued)



_____Number 12
_____Size
_____Shunt Len.
_____Insulated No
_____TermType

Brg Image



Shaft Image



Brushing/sleeves



End bell



Water jacket:



Fan:

N/A

Frame cond .:

Good



Motor Mount Position:

Horizontal/Foot mount

Foot/Flange condition:

Ok

Foot flatness:

Pass



Mechanical Inspection (Continued)

Missing parts?					
J-Box cover	O-rings	☐ J-Box	HH cover	Glands	✓ None
Other missing par	rts				
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 @ 9	0		
DE @ 180		ODE @ 1	80		
DE @ 270		ODE @ 2	70		
Electrical Inspe	ection				
☐ Move armature imbalance to Assemble		ble	Commutator:	-	
Winding Inspec	etion				
Meg Test IP to Flds: Good		Pola	Polarity Check IP to Flds: Yes		
Meg Series to Shunt:	Good				

Brush Image:



DC Electrical Inspection

Brushes: Normal wear

12 Brush holders: Qty. Replace

Insulators: Salvageable Qty.

Lead support stud: Salvageable Alternate brush image: Qty.

Rocker ring: Salvageable Qty.





Commutator Type: Tig welded

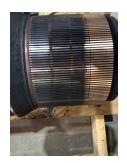
Commutator Hardness: Good

Commutator Condition: Streaked

> Commutator Film: Ok

Commutator images





Armature type: Factory If other

Failure mode: If other Ok

Failure location: Front V ring If other

Armature condition: Solid If other

Winding color: Like new Armature images





DC Electrical Inspection (Continued)

Armature image

Armature Test Results

Megs: Good Hi-pot: Good Core loss: Good



Fields condition

Series/Stab condition: Ok Fields condition image:

Shunts condition: Ok

InterCoils condition: Ok



Fields test results

Series/Stab Meg: Ok Hi Pot: Ok Resistance: Ok

Shunts Meg: Ok Hi Pot: Ok Resistance: Ok

InterCoils Meg: Ok Hi Pot: Ok Resistance: Ok

Thermistors: In use Field Test image

RTD: In use At

Thermostat: Open





Leads/jumpers: Ok

Lead jumper Image:



Conclusion

Component Failure

Bearings worn out and brushes worn out

Cause of Failure

Bearings

Comments

DE Bearing NSK. NU320 Roller Bearing

ODE Bearing NSK 6314Z

Service Tech name: Kelly Felts

Service Tech signature:

Kelly Pelts