

Job Information

Job #: 141239 Date: November 22,

2019

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: Toyota Reason:

Contact: Motor#: 141239 PO#:

Application: – Special notes:

Name Plate Information

Manufacturer: Yaskawa Enclosure: Open Drop Proof Enclosure Type image

(ODP) Serial#: S14E71101 Model#:

Service Factor: Frame: 280BD

Horsepower/kW: 185kw Rated RPM: 1750

Volts 440 Volts 150

Amps 452 Amps 127

Nameplate DE ODE F1 F2 Top

Fields



Armature











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Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

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

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

Shaft Condition: Good Contaminant Image:

Shaft grounding device

Type of grounding device:

present?:

P.....

Shaft runout(TIR-Inbound): .001

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: —

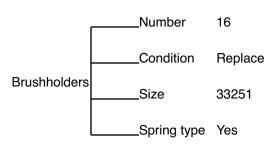
Lubrication brand outbound: Mobile Polyrex EM

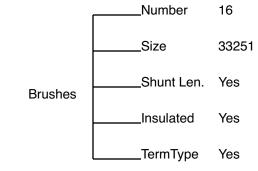
Grease Amt DE: Full Grease Cond. DE: Charred

Grease Amt ODE: Full Grease Cond. ODE: New



Mechanical Inspection (Continued)





Brg Image



Shaft Image



Brushing/sleeves



End bell



Water jacket: Ok



Fan: Ok



Frame cond.:





Motor Mount Position: Horizontal/Foot mount

Foot/Flange condition: Ok Foot flatness: Pass



Mechanical Inspection (Continued)

Missi	ng parts?						
☐ J-I	Box cover	O-rings	☐ J-Box	☐ HH cover	Glands	None	
Other	missing parts						
Air Gap Meaurements (N/A on Single Piece Endbell)					Does Air Gap Meet Customer or EASA spec(<10% variation)?		
	DE @ 0		ODE @ 0		Yes		
	DE @ 90		ODE @ 90)			
	DE @ 180			ODE @ 180			
DE @ 270			ODE @ 27	ODE @ 270			
Electrical Inspection							
☐ Mov	re armature imb	palance to Assemb	le	Commutator:	Salvageable		
Winding Inspection							
Meg Test IP to Flds: —			Pola	arity Check IP to	Flds: —		
Meg Serie	s to Shunt:	_					

Brush Image:



DC Electrical Inspection

Brushes: Broken

Insulators: Salvageable Qty.

Replace

Lead support stud: Salvageable Qty. Alternate brush image:

Qty.

Rocker ring: Replace Qty.





Commutator Type:

Brush holders:

Tig welded

Commutator Hardness: Good

Commutator Condition: Oil soaked

Commutator Film: Ok

Commutator images





Armature type:

Factory

If other

Armature images

Failure mode:

Ok

If other

Failure location:

Front V ring

If other

Armature condition:

Solid

If other

Winding color:

Dull black

WEST TENNESSEE

7030 Ryburn Drive Millington, TN 38053 Phone 901-873-5300 Fax 901-873-5301 CENTRAL ARKANSAS 6812 Lindsey Rd.

6812 Lindsey Rd. Little Rock, AR 72206 Phone 501-375-9178 Fax 501-375-4254



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

Cause of Failure

Bearings

Comments

ode bearing 6316 de bearing 322ec

Service Tech name: Jeremy Yarbrough

Service Tech signature:

& Garbongh

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